CrossTalk

June 2025 *66 Years Of Service To Amateur Radio & Our Community* *Issue 66 : 06*

2025 Club Officers

President :	**Jonathan Pearce WB2MNF**
Vice President :	**Ronald Block NR2B**
Treasurer :	**John O'Connell K2QA**
Recording Secretary :	**John Zaruba Jr K2ZA**
Corresponding Secretary :	**Michael Resnick N2WOQ**

Trustees - 4 Year Term

Charles Lanard KD2EIB	**(2022-2025)**
Sheldon Parker K2MEN	**(2023-2026)**
Len Rust W2LJR	**(2024-2027)**
Earl Moore KC2NCH	**(2025-2028)**

Directors - 3 Year Term

Chris Prioli AD2CS	**(2023-2025)**	**Bill Price NJ2S**	**(2024-2026)**
James Wright N2GXJ	**(2023-2025)**	**Jeffrey Garth WB2ZBN**	**(2025-2027)**
Al Arrison KB2AYU	**(2024-2026)**	**Frank Romeo N3PUU**	**(2025-2027)**

General Membership Meeting
Wednesday, June 04, 2025 @ 1900 Hours
In-Person & ZOOM : 914 7364 1808, 843147

Tech Saturday Forum
Saturday, June 07, 2025 @ 0900 Hours
W2MMD Clubhouse

License Testing Session
Thursday, June 12, 2025 @ 1900 Hours
W2MMD Clubhouse

Board of Directors Meeting
Wednesday, June 18, 2025 @ 1900 Hours
W2MMD Clubhouse

Field Day 2025
Saturday, June 28, 2025 - Sunday, June 29, 2025
W2MMD Clubhouse Site

Tuesday AfterNoon 2M Net @ 1200 Hours
Thursday Night 2M Net @ 2000 Hours

Monday & Thursday Night 40M Net @ 1930 Hours
7.170 MHz (+/- 5 or 10 kHz)

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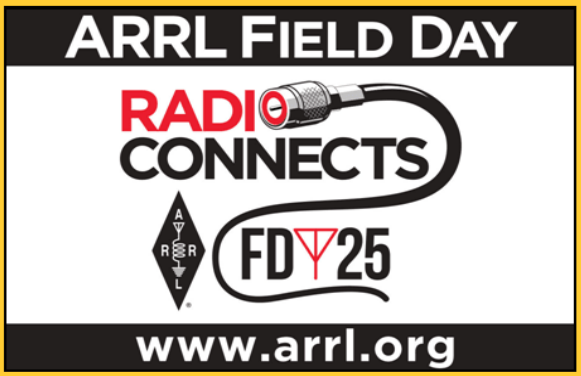
Celebrating 66 Years Of Service To Amateur Radio & Our Community

ARRL Affiliated & Special Services Club

ARRL Field Day 2025

Ham Radio Open House!

Come Visit During The Greatest On-Air Event Of The Year!



What : Amateur Radio Field Day,
National 24-Hour Operating Event

Where : Gloucester County 4H Fairgrounds
235 Bridgeton Pike (Route 77), Mullica Hill, NJ

When : Saturday, June 28, 2025 @ 4-6pm
Open House

Curious about ham radio? This is the event for you!
Family Friendly! Visitors Welcome!

What might you see? Come on out and see for yourself how far a radio wave might travel on just 100 watts and a piece of wire for an antenna, and how digital technologies are transforming this into a growing hobby shared by over 770,000 licensed enthusiasts in the United States alone. During this event, FCC licensed amateur radio operators (Hams) will be setting up with off-the-grid power and portable radios in the field to establish voice, digital, and code connectivity with thousands of other hams setting up to do the same, both here in the Philadelphia area, and all over the United States and Canada this same weekend.

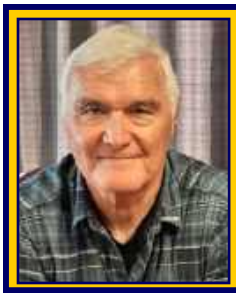
What's the goal? To learn how to operate in abnormal situations and in less than optimal conditions as training to meet the challenges of emergency preparedness, while showcasing the capabilities of Amateur Radio to be able to get through when all else may fail, such as following a hurricane, or other disaster, where infrastructure we rely on daily, such as cell phone service and electricity from the power grid, may not be available.

And to have Fun!

Hope to see you at the Open House!

Present By : Gloucester County Amateur Radio Club

Gloucester County Amateur Radio Clubhouse Site • www.w2mmd.org
Gloucester County 4-H Fairgrounds • 235 Bridgeton Pike (Route 77) • Mullica Hill, NJ 08062
GPS : 39.717000°, -75.209950°



President's Letter
Jon Pearce WB2MNF

June 2025

June has arrived, and the Gloucester County Amateur Radio Club continues to thrive with projects and events as we move into summer. Our motto, ***Learning Stuff. Building Stuff. Doing Stuff - Together!***, shines through in all we do. Let's reflect on May's highlights and look ahead to what's coming.

Wattmeter Build : A Tech Saturday Success

Our Tech Saturday sessions on May 10th and May 17th to build the digital wattmeter/dummy load from the February 2025 QST were a great success. A total of 24 members participated - 14 on the first Saturday and 10 on the second - each assembling this practical device that measures RF power using an Arduino microcontroller. **Chris Prioli AD2CS**, did a terrific job preparing for the build, organizing all materials in advance and writing detailed instructions that made assembly straightforward. A few minor issues arose, but Chris quickly resolved them, ensuring everyone left with a fully operational unit. The feedback has been excellent, and given the enthusiasm we're considering another wattmeter session next year.

Tower Upgrades Moving Forward

We've made significant progress on our tower refurbishment project, thanks to the hard work of **Al Arrison KB2AYU**, **Frank Romeo N3PUU**, and several other Club members who pitched in. The 89-foot UHF/ microwave tower is now fully extended, with its cabling and pulleys replaced - a challenging task that also included updates to the 72-foot tower. The taller tower will soon host new UHF and microwave antennas that have been ordered. The 72-foot tower is scheduled to receive the 2 meter, 220 MHz, and 440 MHz antennas that were previously on the tower trailer, with installation planned in the coming weeks. Trenches for permanent feedline installation will be dug later this summer, but until then we'll run the cables across the ground into the VHF room, allowing use with our new ARDC funded VHF equipment. When fully completed, this setup will position our VHF station among the most advanced in the country.

GCARC Picnic Recap

By the time you read this, our ***GCARC Family Picnic*** on May 31st at ***Red Bank Battlefield Park*** will have taken place. We had about 40 members and families signed up for the event, held from 11:00 AM to 2:00 PM, with food ordered and promising weather forecast. Hopefully, it was another successful gathering filled with good food, camaraderie, and some portable operating by the Delaware River. Look for a full recap in next month's CrossTalk, and thank you to everyone who helped make it happen.

Field Day Planning In Progress

Field Day on June 28-29 is just around the corner, and **Jim Wright N2GXJ**, is pulling together teams and plans for a memorable event. Our Tech Saturday on June 7th will be dedicated to Field Day preparation, serving as both an ***"Intro To Field Day For Newbies"*** for first timers and a planning session for seasoned operators.

President's Letter - Continued on page 4

President's Letter - Continued from page 3

Anyone is welcome to attend this session to learn what Field Day is all about, though newbies who are seriously interested in participating are encouraged to contact Jim in advance at ***n2gxj@arrl.net*** to discuss roles. We expect a strong turnout to finalize operator schedules, antenna setups, and tasks like logging and station management. As one of our major annual events, Field Day is a fantastic opportunity to connect with fellow hams and showcase our skills, so all members are encouraged to join us at the Clubhouse location for the activities.

Woodruff STEM Club Wrap-Up and Future Planning

The Woodruff STEM club held its final session of the spring on May 19th, with clear weather providing the perfect conditions for a memorable day. Students launched multiple Estes rockets they had built, showcasing their engineering skills, with one rocket built by a staff member also launched. Unfortunately all of the rockets ended up landing off school property in a nearby neighborhood, a result that was both predicted and accepted by the kids who chose to use the most powerful engines thereby foregoing the opportunity to reclaim their rockets.

Looking ahead, we've scheduled ham license study sessions for next week followed by testing, and we're hopeful that several of these young participants will become new hams as a result. We're already starting to plan activities for next year's STEM club session, exploring new projects like building simple receivers or organizing more transmitter hunts to further engage students in amateur radio and technology.

EME Dish Update

In May, **Al Arrison KB2AYU**, and **Frank Romeo N3PUU**, attended the ***South Jersey Radio Association (SJRA)*** meeting, where **Paul Andrews W2HRO**, builder of the sublunar EME dish we purchased last year, was the guest speaker. We've had issues with the dish's feedline, but Paul took it home for repairs. It's now fixed, and we'll pick it up later this week, along with a new rotator and tripod mount. This upgrade will significantly enhance our Earth-Moon-Earth (EME) moon bounce capabilities, potentially opening opportunities to collaborate with the SJRA team on their EME projects. We'll share more as we integrate this equipment.

Tape Measure Yagi Build In July

Interest in tape measure Yagi antennas remains high, with 12 members at the May meeting expressing their desire to build these devices for fox hunting. We've scheduled a two-week Tech Saturday project on July 12 and July 19 to construct 2 meter tape measure Yagis and attenuator boxes. With limited Saturdays in July and space constraints, we can only accommodate about a dozen participants.

Go to ***Tape Measure Yagi Build - GCARC Payments and Registration Portal*** **https://registration.w2mmd.org/wpregp/tape-measure-yagi-build** to reserve your seat and to submit payment for the class. The cost this year is a modest $60, up slightly from last year's figure. This is due to the across-the-board increase in parts and materials costs.

Please note that due to the 4th of July weekend, there will be no Tech Saturday on July 5, sessions will start on ***July 12*** instead. During these build dates, the Clubhouse will focus on this project, so the usual Saturday assistance may be limited. Additionally, the Clubhouse will be closed on Saturday, July 26, as we've traded that date with the 4H Fair for parking space in exchange for using their area for Field Day.

President's Letter - Continued on page 5

President's Letter - Continued from page 4

New Sign-in For Club Events

Attendees at Club activities will soon see a new tablet-based event sign-in program that will replace our paper sign -in sheets at General Membership Meetings, the Clubhouse, and other activities like Field Day and the picnic. This digital solution will allow us to gather data on attendance, helping us assess member engagement and understand the relative interest in various Club events. Interestingly, this project was entirely developed by Grok AI, guided by my prompts, despite my limited knowledge of web development, programming, or the hosting site used.

My goal was to see if Grok could create a functioning product without me understanding the technical details, and the results were both spectacular and a bit unnerving, showcasing the power of AI in supporting club initiatives.

June sets the stage for a summer full of learning and connection at GCARC. Whether you're studying for your license, joining us for Field Day, or building a Yagi, your involvement keeps our Club thriving. Let's make the most of these opportunities together.

73 de Jon Pearce WB2MNF

Sponsored By The Monroe Township Parks and Recreation Commission

Owens Park, 700 North Tuckahoe Road, Williamstown, NJ

Welcome New Club Members :

Diann Gentile, KD2BND, an Amateur Extra Class who lives in Hammonton, NJ.
Sean Pratt, N1ZQU, a General Class who lives in Runnemede, NJ.
Matt Wilson, K2MFW (Returning Member), a General Class from Millville, NJ.

We are glad to have you as a member of the Club and hope to see you regularly at Club meetings, events, and activities. Hope to see you at :

- **The June 4th General Membership Meeting, either in-person or on ZOOM**
- **The June 7th Tech Saturday Forum**
- **The Board of Directors Meeting on June 18th**
- **The Dinner at the Clubhouse on June 25th**
- **Field Day on June 28th and 29th**

We also hope to "SEE" you on the "AIR" on the following nets :

- **Sunday Night Skywarn 2 Meter Net @ 1930 Hours.**
- **Sunday Night ARES 2 Meter Net @ 2000 Hours.**
- **Tuesday AfterNoon 2 Meter Net @ 1200 Hours.**
- **Monday & Thursday Night 40 Meter Nets on 7.170 MHz (+/- 5 or 10 kHz) @ 1930 Hours.**
- **Thursday Night Rag Chew 2 Meter Net @ 2000 Hours.**

All 2 Meter Nets are on our 147.180 MHz (PL 131.8) repeater or on EchoLink W2MMD-R.

Gloucester County Amateur Radio Club Elmers

We are still looking for some more Club Elmers. If you would to add your name to the Elmer's List, send your specialty to w2mmdgcarc@gmail.com. Here is what we have so far :

- **Tony Starr, K3TS : Antenna Construction; Contesting; CW Help and Training**
- **Ken Bozarth, KN2U : Antennas**
- **Jeff Welsh, KD2AZI : Boat Anchor Repair & Operation; Raspberry Pi; Arduino; Python; POTA; Mobile Installation & Operating**
- **Karl Frank, W2KBF : Digital Messaging (FLDIGI, WinLink)**
- **Lenny Rust, W2LJR : DMR Radios & Programming**
- **Ron Block, NR2B : Lightning protection & grounding**
- **Chris Prioli, AD2CS : Kit Building; Antenna Building; Radio Programming; PC and Electronic Troubleshooting; Ham Radio Licensing & Studying**
- **John Zaruba Jr, K2ZA : Yaesu System Fusion Radio Programming; POTA; SOTA; CW Learning & Operating**
- **Jerry Barnish, K2EAB : Radio Astronomy**
- **Mike Thompson, KG4JYA : Radio Astronomy; VARA (HF and FM); WinLink**
- **Steve Farney, W2SEF : WSJT-X; FT-8; LoTW; TQSL; Grid Square**
- **Carl Wittig, N2CRW : Audacity® Audio Editor**
- **Gary Mirkin, WA3SVW : FLDIGI; MMSSTV**
- **Jon Pearce, WB2MNF : Satellite Communications**
- **Frank Romeo, N3PUU : Toilet Installer; Jack-Of-All Trades - Master Of None**
- **John Hill, W2HUV : Local & Remote W2MMD HF Station Operation; Training & Support**
- **Dave Sheppard, W2PAX : National Traffic System**
- **Bob Pantazes, W2ARP : How To Manage QSL Cards Properly**

General Membership Meeting

Wednesday, June 04, 2025 @ 1900 Hours

Pfeiffer Community Center

Simulcast Live Via ZOOM : Meeting ID : 914 7364 1808; Passcode : 843147
Join ZOOM Meeting Link : https://bit.ly/3Pt4dLO

Go to : www.w2mmd.org to download the ZOOM log-on instructions PDF

3D Printing In The Ham Shack

By Richard Gopstein KD2CQ

In this month's program **Rich Gopstein KD2CQ**, will delve into the world of 3D printing and explore its powerful potential within the ham radio community. We will discover how 3D printing stands apart from traditional manufacturing by offering flexibility, customization, and rapid prototyping capabilities. In addition, we will learn why adopting this innovative technology can be a game changer - not just for fabricating unique components, but also for enhancing your ham radio projects.

Throughout the session, Rich will :

- **Clarify The Fundamentals :** Understand what 3D printing is and how its process contrasts with traditional manufacturing methods.
- **Reveal The Advantages :** Examine the compelling reasons to integrate 3D printing into our hobby or professional pursuits.
- **Connect With Ham Radio :** Explore specific applications of 3D printing that cater directly to the needs and creativity of ham radio.
- **Offer Practical Guidance :** Share best practices, tips, and techniques to help you achieve higher quality prints and more effective designs.

To cap off the presentation, Rich will demonstrate a 3D printer in action, and you will see firsthand the exciting opportunities that this technology brings to the world of ham radio.

This session is designed to inspire and equip you with both the knowledge and practical skills to merge technology with tradition, empowering you to innovate in the ham radio space. Don't miss it!

Rich Gopstein KD2CQ, has been licensed since 1981 and is currently an Amateur Extra. His background is corporate IT, though he's mostly retired. He currently volunteers for **ARDC (Amateur Radio Digital Communications)** as well as the AMSAT satellite engineering team. He has owned a 3D printer for over 10 years, though he still has plenty to learn.

Tech Saturday Forum

June 07, 2025 @ 0900 Hours

W2MMD Clubhouse

Forum Topic : Introduction To Field Day For Newbies

Think You Know Field Day? Tech Saturday Session Saturday, June 7, 2025

By Jim Wright N2GXJ

The June 7, 2025 Tech Saturday Forum will be our in-person field day training and planning session in two parts, for both the newbie to field day, and for everyone planning to participate this year. As your field day chair for this year, I encourage "newbies" and “veterans” to attend this Tech Saturday session, as there have been some changes. All station chairs have been invited to be in attendance to help answer questions and finalize details at this session in this last face to face meeting planned before the event.

First Part Agenda - Introduction To Field Day, And How We Do It

I’ll start with a gentle overview of what field day is, and how we do it. Then we’ll ease into trying our hand at logging a few sample “field day exchanges” in both voice and digital modes as practice ahead of the big weekend. In this first part, you can expect to gain a familiarity with common operating classes and sections and their abbreviations likely to be encountered in field day exchanges, while learning the basics of how to use the W2MMD licensed version of N3FJP software to log voice contacts at our field day site for credit. For those planning to use WSJT for digital contacts in FT4 (recommended) or in FT8, at home or at our field day site, I’ll share and demonstrate a trick that allows you to more easily find stations calling CQ FD that you’ve not yet worked in this year’s field day, without losing any of your prior non-field day log entries in the process.

We’ll finish the first part of the agenda with a quick review of some of the recent rule changes, along with some questions and answers, before moving on to the second part of the agenda.

Second Part Agenda - Finalizing Planning Session

In the second part, we’ll be having our only scheduled face-to-face meeting with the field day and radio chairs and planners ahead of the June 28 field day weekend. In an open discussion, here we will finalize our field locations, go over our timelines, review where at for both operating and bonus point challenges, and for any help needed. We’ll also be checking out reserved band pass filters to radio chairs at this time, so that they are available to be staged into configurations and tested ahead of the field day event.

Newbies and veterans alike are encouraged to flip through the slides at **https://gloucestercountyarc.weebly.com/uploads/1/1/5/5/11554662/think_you_know_field_day_2025.pdf** ahead of the June 7th Tech Saturday, so that we all have the same frame of reference ahead of these first and second part discussions.

Also see the current stations and proposed field day locations on the next page.

I look forward to seeing you there!

Field Day 2025 : Current Stations and Proposed Field Locations

Gloucester County Amateur Radio Club
YouTube Channel
https://www.youtube.com/@W2MMD

"Dinner @ The W2MMD Clubhouse"
Wednesday, June 25, 2025 @ 1800 Hours
W2MMD Clubhouse

GCARC TechNet ZOOM Forum

GCARC TechNet ZOOM Forum is scheduled to be available every Monday Night until December 29, 2025.

There will not necessarily be a topic scheduled every Monday Night, but the opportunity is available to schedule succeeding topics of interest on consecutive Monday Nights.

Every Monday @ 1930 Hours

Date &Forum Topic : See e-mail and website for more information

Go to : https://gloucestercountyarc.weebly.com/gcarc-technet.html
for TechNet Information Resources and ZOOM Instructions

Meeting ID : 933 9943 3123 ; Passcode : 800835
Join ZOOM Meeting Link : https://bit.ly/3K8bWwj

There is a new website for the Gloucester County Amateur Radio Club Volunteer Examiner Team. Everything you need to know about getting your ham license or upgrading your license can be found on this website. Pass It Around!

https://veteam.w2mmd.org

So you find our website confusing, can't find anything, Well So Do I!!

I have created a page *(What, Not Another Page!!)* called "Quick Links"

On this page you will find "Buttons" to some the most popular pages
I will add more as time goes on, but I hope this helps your journey navigating through your Club Website!
https://gloucestercountyarc.weebly.com/quick-links.html

Regional (Atlantic & Hudson Divisions) Hamfests & Events

June 07, 2025 : Lockport Amateur Radio Association, LARA Summer Hamfest, Cambria Volunteer Fire Hall, 4631 Cambria-Wilson Road, Lockport, NY, **www.lockportara.us**

June 07, 2025 : East Greenbush Amateur Radio Association, 21st Annual 2025 Hamfest, East Greenbush Volunteer Fire Department, 66 Philips Road, Rensselaer, NY. **www.egara.org**

June 08, 2025 : BreezeShooters Amateur Radio Club, ARRL WPA Section Convention, Hamfest, Computer and Electronics Show, Butler Farm Show Grounds, 625 Evans City Road, Butler, PA. **www.breezeshooters.org**

June 08, 2025 : Long Island Mobile Amateur Radio Club, LIMARC's Outdoor Hamfest & Electronics Fair, 999 Stewart Avenue, Bethpage, NY. **www.limarc.org**

June 14, 2025 : Skyline Amateur Radio Club, Hamfest & Technology Fair, Cortland County Fairgrounds, 4301 Fairgrounds Drive, Cortland, NY. **www.skylinehamradioclub.org**

June 14, 2025 : Fair Lawn Amateur Radio Club, 5th Annual FLARC Hamfest, Fair Lawn Memorial Pool, Morlot Avenue & Essex Street, Fair Lawn, NJ. **www.fairlawnarc.com**

June 15, 2025 : Baltimore Amateur Radio Club, Father's Day Hamfest, Arcadia Carnival Fairgrounds, 16020 Carnival Avenue, Upperco, MD. **www.w3ft.com**

June 21, 2025 : Columbia-Montour Amateur Radio Club, Bloomsburg Hamfest, Lime Ridge Community Center, 6405 4th Street, Lime Ridge, PA. **www.qsl.net/cm-arc/hamfest.htm**

June 21, 2025 : Rochester Amateur Radio Association, 92nd Annual Rochester Hamfest 2025, Barnard Fire Department Park, 410 Maiden Lane, Rochester, NY. **www.rochesterham.org**

June 21, 2025 : Raritan Valley Radio Club, W2QW Hamfest, Piscataway High School, 100 Behmer Road, Piscataway, NJ. **www.w2qw.org**

Museum Ships Weekend 2025
0001Z June 7 through 2400Z June 8, 2025

The Battleship New Jersey Amateur Radio Club is sponsoring the Annual Museum Ships Weekend Event

Go to www.nj2bb.org/museum for more information

W2MMD

www.facebook.com/W2MMD

twitter.com/w2mmd_gcarc

Facebook

GCARC Monthly VE Exam Testing Summary - May 10, 2025

By Chris Prioli AD2CS

The regular monthly VE session was held on Thursday, 8 May at the W2MMD Clubhouse. There were three exam candidates, each of whom was seeking a different license level. The session was attended by a total of 6 GCARC Volunteer Examiners. The Team Liaison for this session was Chris Prioli ADCS.

The candidates, who were all successful in their testing endeavors were :

- **Dean A Fillari KE2GAJ, a Technician Class from Cherry Hill**
- **Harry A Maloney III KE2ALG, who upgraded to Amateur Extra Class from Vineland**
- **Robert K McMeekin WA2CJI who upgraded to General Class from Haddon Township**

The VE Team proctored an exam session using completely electronic methodologies. This means that the candidates completed the exams online, and that all grading and submissions were done online as well.

The GCARC VE Team that proctored the exam session included the following Volunteer Examiners :

- **Gary Reed N2QEE**
- **John O'Connell K2QA**
- **Rich Subers W2RHS**
- **Court Smith KD2SPJ**
- **Mike Harla N2MHO**
- **Chris Prioli AD2CS**

The next regularly scheduled VE session will be held on Thursday, 12 June 2025, at 1900 Hours at the W2MMD Clubhouse. The VE team will be using the new ExamTools system to its fullest capability, within our current technological means. It is important that all test candidates going forward will be advised, whenever possible, to pre-register and pre-pay for the exam online. Specifics of that process are explained at : **https://veteam.w2mmd.org**

GCARC VE Team : 2025 License Exam Monthly Summary

	Technician Class		General Class		Amateur Extra Class	
	Monthly	YTD	Monthly	YTD	Monthly	YTD
January	0	0	0	0	0	0
February	2	2	0	0	1	1
March	1	3	2	2	0	1
April	0	3	0	2	1	2
May	1	4	1	3	1	3
June						
July						
August						
September						
October						
November						
December						

Membership Badges Ready For Pick-up.

They can be picked up at the W2MMD Clubhouse or at the monthly General Membership Meetings

Dave Danichkin KD2UXC Jack Snyder AI2D
Jim Foster W3JNF

New Members Support Group & Discord Channel

- **Organized By Jim Beury KE2DRN**
- **Objective : To focus Club resources on the needs of newly licensed members**
- **Supported by "new_members" Discord Channel**

Additional Support :

- **Saturday Morning @ The W2MMD Clubhouse**
- **GCARC@MAILMAN.QTH.NET Club E-mail Reflector**
- **E-Mail President @ w2mmd.org**

Need a ride to a Club meeting, event, or activity?

Just send a message to the Club's e-mail reflector asking if a member can pick you up

GCARC <*at*> MAILMAN <*dot*> QTH <*dot*> NET

All Club members have access to this FREE e-mail service

NTS Resources

The National Traffic System® (NTS) is a network of Amateur Radio operators who move information during disasters and other emergencies. General messages offering well wishes also move through the NTS to help test the system and to help Amateur Radio operators build traffic handling skills. While the NTS is primarily set up to serve the United States and Canada, it is possible to move traffic internationally through the NTS through various local, regional, area, and international network connections.

- **NTS 2.0 : https://nts2.arrl.org**
- **NTS Manual : https://www.arrl.org/nts-manual**
- **NTS Methods and Practices Guidelines Table of Contents : https://www.arrl.org/table-of-contents-nts-methods-and-practices-guidelines**
- **Handling Instructions : https://nts2.arrl.org/hx-handling-instructions**
- **Numbered Texts : https://nts2.arrl.org/numbered-texts**
- **Form Encoding Rules for Form : https://nts2.arrl.org/form-encoding-rules-for-forms**

DAs and DITs

>> Congratulations to **Joshua Boylan KE2FSC** (ex. KE2FNA) for a new vanity callsign, upgrading to General Class, and a DMR ID 3216140.

>> Condolences to **Marylu Ciraula K3MLC** and family with the loss of her mother.

>> Congratulations to **Harry Maloney KE2ALG** for upgrading to Amateur Extra Class, and both **Robert McMeekin WA2CJI**, and **Paul Johnston KC3VTI**, for upgrading to General Class.

Good attendance for the March 8, 2025 Tech Saturday Forum DMR Hands-On Workshop

April 5, 2025 Tech Saturday Forum : Designing PCBs for Ham Radio Projects

The Education Connection

By Chris Prioli AD2CS - chris@ad2cs.com
www.ad2cs.com

June 2025

At this point, both of the GCARC Dummy Load/Wattmeter group build sessions are behind us, and both sessions turned out to be wildly successful. We had a total of fourteen participants on the first build date, Saturday 10 May 2025, and then we had nine participants on the second build date, a week later on Saturday 17 May 2025. While not all of the builders left that day with working units, it is my understanding that all of the built units are now functional and are operating as designed.

A couple of design options were obviated by a managerial decision that I made. This resulted in all builders constructing units having a power capacity of 100 watts, and it also resulted in all of the Arduino modules being socketed to the processor board instead of being soldered directly to that board. This makes it possible to easily remove and replace the Arduino Nano module should the need arise.

Each participant was provided with a thorough assembly manual, and while there were some minor typographical errors in the manual, by and large the manuals were such that any builder who simply followed the step-by-step instructions provided would have a working unit as an end result.

One minor point that was a direct result of my failure to think about the differing soldering skills and habits of individual builders. This caused a minor stir when it was determined that I would need to enlarge the relief bores drilled into the underside of the large heatsink. The enlargement was required so as to avoid the possibility of inadvertent short circuits to the solder joints on the foil side of the detector PCB.

Several builders have now reported that they have successfully used their watt meters to great success on their radio benches at home. This speaks well of the overall design and the ease of assembly when the instructions are followed faithfully.

I had an interesting exchange with **Bob Fontana AK3Y**, the author of the article upon which this build was based. We discussed the changes that I made to his original design, why I made those changes, and what the end results or effects of those changes turned out to be. Bob was impressed and pleased with the success that our Club had with the build.

For those who may now have decided that they would like to own one of these units, it is not too late to build one. I have ordered and received an additional lot of thirty of each of the PCB's, and I have sufficient supplies on hand to kit up several units for individual building. If you are interested in building one of these on your own, let me know and I will put a kit together for you. The cost, payable to me, would be fifty dollars plus the NJ sales tax of $3.31, for a total cost of $53.51. A two to three day lead time will be required so that I can do my part on the pre-assembly tasks and package the kit properly for assembly.

On a different topic, we are now gearing up for the tentatively-scheduled ***12 July and 19 July*** build dates for the ***Tape Measure Yagi Fox Hunt Antennas***. At the May 2025 General Membership Meeting, we had about a dozen individuals express an interest in participating in this build. Watch for a sign-up announcement to come out in the next few days, by which time we will have a cost and a maximum number of seats determination made.

Education Connection - Continued on page 16

Education Connection - Continued from page 15

As in the past, this antenna will include the 4 MHz offset attenuator as an integral part of the overall antenna build.

Finally, we have a special VE Session coming up on 10 June 2025 for the students in the Session IX GCARC Ham Exam Preparation Classes. These classes are set to wrap up within the next couple of weeks. The next regularly-scheduled class session will be Session X, the Fall 2025 session.

That's it for now…See you next month!

The Education Connection Update
Tech Saturday Forum : July 12 and July 19, 2025

By Chris Prioli AD2CS

OK folks - it is now time for any of you who want to get in on this antenna build to get registered and submit your payment for the build session. The session is a two-day affair, with the build taking place on Saturday, 12 July and Saturday, 19 July. This is a one-off build that will take us two weekend sessions to complete, as it did last year.

There are a very limited number of seats available, so it is best to sign up early to increase your odds of getting a seat in this class. Right now, the plan is to take the first twelve registrants into the session.

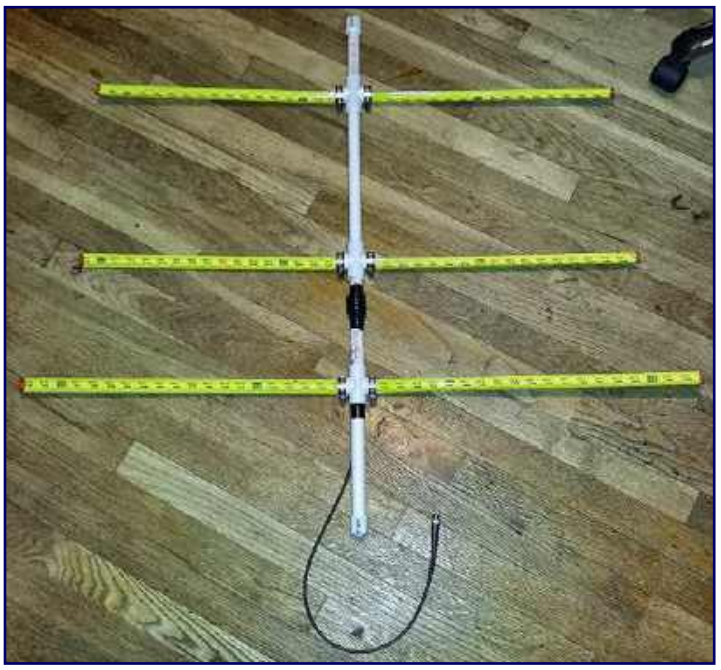
Go to Tape Measure Yagi Build - GCARC Payments and Registration Portal :
https://registration.w2mmd.org/wpregp/tape-measure-yagi-build
to reserve your seat and to submit payment for the class. The cost this year is a modest $60, up slightly from last year's figure. This is due to the across-the-board increase in parts and materials costs.

***** DON'T DELAY - SIGN UP EARLY TO GET A SEAT *****

***** THIS IS A PRELIMINARY ANNOUNCEMENT TO START THE REGISTRATION PROCESS *****

A more informative email will be coming out shortly that describes the build itself in more detail.

However, for all intents and purposes, this will be the same as last year's build.



7th Annual ARRL SNJ Section Convention

Presented By The

Gloucester County Amateur Radio Club

W2MMD

Celebrating Our 66th Year

www.w2mmd.org

Open To The Public At 8:00 AM : *Rain or Shine*

47th Annual Hamfest : Sunday, September 7, 2025

ADMISSION : $10.00

Non-Ham Spouses and Kids FREE

Vendors and Tailgaters of new and used radio and electronic equipment

Monday & Thursday Night 40 Meter Net @ 1930 Hours
7.170 MHz (Plus or Minus 5 to 10 kHz)
NCS : Jim Clark, KA2OSV

ADIF Logs Wanted When Operating As W2MMD @ The Clubhouse

By Jim Wright N2GXJ - Contact me via e-mail on Club Roster List

It is a common courtesy in ham radio to be able to QSL 2-way contacts made with other hams. We're pretty good about doing this for our field day contacts made each year, but are falling behind in this for contacts we make from the Clubhouse as W2MMD.

So here is the ask :

If you operate from the Clubhouse as W2MMD (e.g. on HF, UHF/VHF, or on Satellite, at Tech Saturday, or during contests or other), please email me the electronic log entries in ADIF format from the logger program you used for those contacts?

That way, just like I do following field day each year, I can get them uploaded to LOTW and to eQSL to offer the courtesy of an electronic QSL to those who make contact with us as W2MMD here in NJ.

Thank you

Tuesday AfterNoon Net @ 1200 Hours

Net Control Stations :
Steve Farney W2SEF; Rich Subers W2RHS;
Greg Ciraula K3GC; & Jeff Garth WB2ZBN

147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

Here is the schedule for the upcoming weeks

Greg Ciraula K3GC : June 3, 2025
Steve Farney W2SEF : June 10, 2025
Rich Subers W2RHS : June 17, 2025
Jeff Garth WB2ZBN : June 24, 2025

Greg Ciraula K3GC : July 1, 2025
Steve Farney W2SEF : July 8, 2025
Rich Subers W2RHS : July 15, 2025
Jeff Garth WB2ZBN : July 22, 2025
Steve Farney W2SEF : July 29, 2025

Greg Ciraula K3GC : August 5, 2025
Steve Farney W2SEF : August 12, 2025
Rich Subers W2RHS : August 19, 2025
Jeff Garth WB2ZBN : August 26, 2025

Greg Ciraula K3GC : September 2, 2025
Steve Farney W2SEF : September 9, 2025
Rich Subers W2RHS : September 16, 2025

Jeff Garth WB2ZBN : September 23, 2025
Steve Farney W2SEF : September 30, 2025

If you would like to be a Net Control Station for this net, please contact Steve Farney W2SEF

Thursday Night Rag Chew Net @ 2000 Hours

Net Control Stations :
Mary Delemarre W2TDS; Gary Mirkin WA3SVW;
Steve Farney W2SEF; & Jeff Garth WB2ZBN

147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

Here is the schedule for the upcoming weeks :

Steve Farney W2SEF : June 5, 2025
Mary Delemarre W2TDS : June 12, 2025
Gary Mirkin WA3SVW : June 19, 2025
Steve Farney W2SEF : June 26, 2025

Jeff Garth WB2ZBN : July 3, 2025
Mary Delemarre W2TDS : July 10, 2025
Gary Mirkin WA3SVW : July 17, 2025
Steve Farney W2SEF : July 24, 2025
Jeff Garth WB2ZBN : July 31, 2025

Steve Farney W2SEF : August 7, 2025
Mary Delemarre W2TDS : August 14, 2025
Gary Mirkin WA3SVW : August 21, 2025
Steve Farney W2SEF : August 28, 2025

If you would like to be a Net Control Station for this net, please contact Jeff Garth WB2ZBN

Gloucester County Skywarn Net

The Gloucester County Skywarn Net is held every Sunday @ 1930 Hours on the 147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

All Are Welcome To Participate

Net Control Stations : Charlie Wahl KC2STO & Jeff Garth WB2ZBN

Gloucester County ARES Net

The Gloucester County ARES Net is held every Sunday @ 2000 Hours on the 147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

All are welcome to participate

Net Control Stations :

Steve Farney W2SEF; Bob Keogh KD2NEC; Karl Frank W2KBF; Al Arrison KB2AYU; Gary Mirkin WA3SVW; Greg Ciraula K3GC; & Todd Woodward KD2ESH

Steve Farney W2SEF : June 1, 2025
Todd Woodward KD2ESH : June 8, 2025
Steve Farney W2SEF : June 15, 2025
Greg Ciraula K3GC : June 22, 2025
Bob Keogh KD2NEC : June 29, 2025

Steve Farney W2SEF : July 6, 2025
Karl Frank W2KBF : July 13, 2025
Al Arrison KB2AYU : July 20, 2025
Gary Mirkin WA3SVW : July 27, 2025

Steve Farney W2SEF : August 3, 2025
Todd Woodward KD2ESH : August 10, 2025
Steve Farney W2SEF : August 17, 2025
Greg Ciraula K3GC : August 24, 2025
Bob Keogh KD2NEC : August 31, 2025

Anyone who is interested in joining the Gloucester County ARES Team, is invited to contact Bob Keogh at KD2NEC @ QSL.NET

ARRL Learning Center

https://learn.arrl.org

Discover how to make Amateur Radio your own.

Online courses from the ARRL Learning Center provide ARRL members with additional instruction and training for getting on the air, emergency communications, and electronics and technology

Current Website Updates : Go to this page to find out the latest changes & updates on our W2MMD Website

https://gloucestercountyarc.weebly.com/current-website-updates.html

At The Repair Bench…

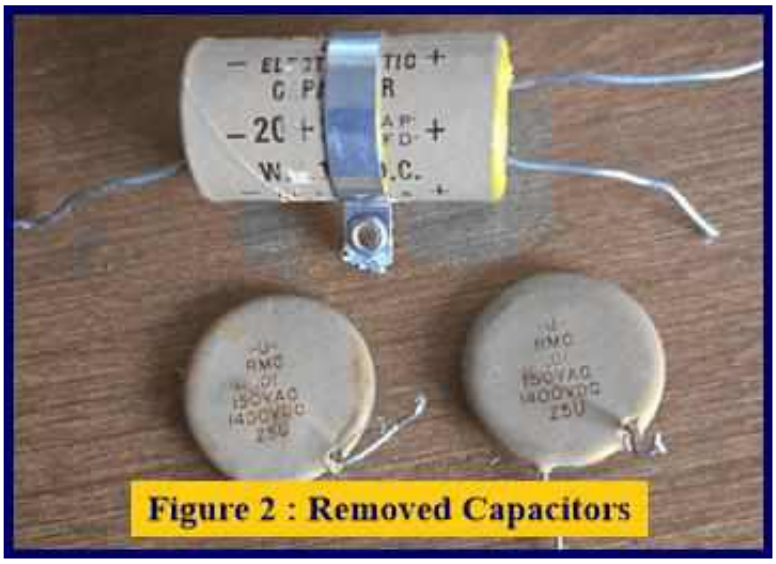
A monthly column describing a recent repair bench event.

By Chris Prioli AD2CS - chris@ad2cs.com - www.ad2cs.com

Ameco PT Preamplifier - June 2025

Recently, Club member **Darrell Neron AB2E** brought to me for repair an old tube-type preamplifier unit known as an **Ameco PT Preamplifier (Figure 1)**, which, at the time it was made, was a product of the Aerotron Company. This was the first of a series of different preamplifier models manufactured under the Ameco nameplate.

The problem with this one was that it would shut down as soon as the preamplifier circuit was energized, but it would function OK in bypass mode. Now, this unit is a very simple circuit, utilizing a single 6EH7 vacuum tube as the amplifying element. It also uses an older design dual filter capacitor, which had two 20µF 150V electrolytics in a **single axial component (Figure 2)**. That was a common methodology in the past, in which the capacitor would have a single lead off the negative end, and two leads off the positive end, one for each section of the capacitor. These were so-called "dry" electrolytics, which used a solid electrolyte rather than a liquid or paste-style compound.



Investigation of the unit showed that there was relatively little that could fail in the circuit. There are three solid-state diodes, several ceramic disc capacitors, several coils, an air-gap capacitor, several resistors, the dual electrolytic capacitor, two transformers, and the vacuum tube.

Going after the low-hanging fruit first, I immediately pulled and tested the vacuum tube, which surprised me by testing out at almost 100% of its new performance. I believe that this may actually be the original vacuum tube, as it is an Aerotron branded tube.

Some quick resistance checks showed that the resistors were all within their nominal tolerance values, and that the diodes were functional. While ceramic capacitors are fairly robust and do not fail often, they can and do sometimes fail. However, in this case, all of them tested OK, although there were two ceramic discs that were installed in a placement that nowadays is considered unsafe. More about them later.

I decided to test the dual filter capacitor for leakage, first in-circuit, which led to failed tests. I then tested the unit out-of-circuit, and once again found that both capacitors in the device had failed in a very leaky condition.

At The Repair Bench - Continued on page 21

At The Repair Bench - Continued from page 20

I used my homebrewed capacitor leakage tester for testing the electrolytics, and it showed exactly what I thought that it might, what with the age of the dual capacitor. Needless to say, I replaced the dual capacitor with a pair of modern 20µF 150V axial-type electrolytics. After installation of the **capacitors (Figure 3)**, the unit powered up and remained operational even in the pre-amp active mode of operation.

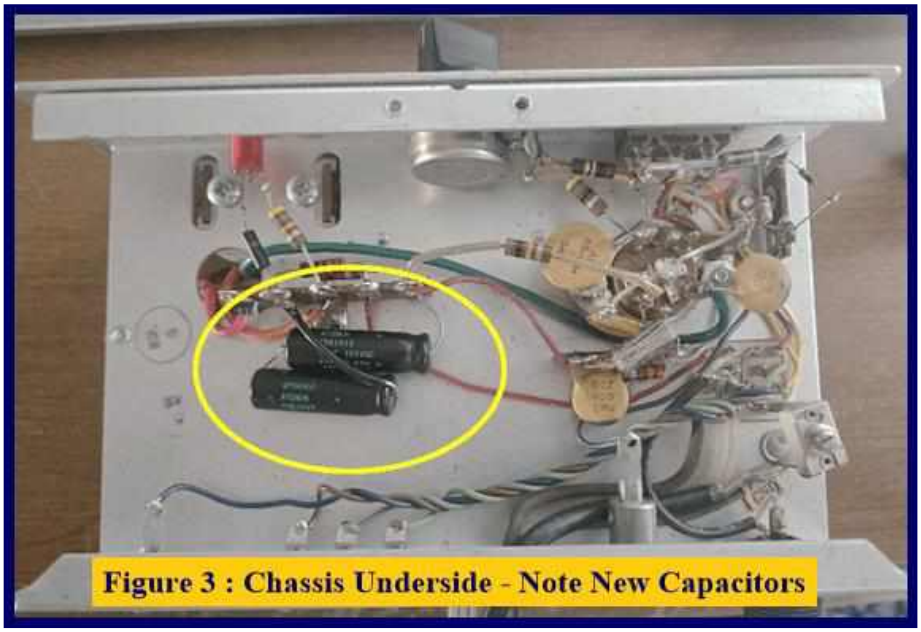


Figure 3 : Chassis Underside - Note New Capacitors

Now that the unit was operational, I went back to the two capacitors that I mentioned earlier as being installed in an unsafe manner. A few words about this topic are called for here.

It has long been a common practice to install ceramic capacitors in various configurations across the incoming AC power line to certain mains-powered electronic equipment. There are basically two different connection schemes that are widely used, an "X" scheme and a "Y" scheme.

In the "X" scheme, the capacitor is connected across the incoming AC line, from the line lead to the neutral lead. In the "Y" scheme, the capacitor is connected from one or both of the incoming power lines to chassis ground, ***i.e.***, from the line lead to chassis ground and from the neutral lead to chassis ground. The safety risks of such capacitors are evident if one considers the capacitor failing in a shorted condition.

In the event of the "X" connected capacitor, this would create a direct short circuit across the incoming line cord, most likely blowing any fuse or tripping any circuit breaker that is hopefully present in the circuit. In those circuits without an overload protection device, the end result is a blown fuse or circuit in the service panel. In the event of the "Y" connected capacitor, failing shorted would most often result in a hot chassis, leading to an extreme shock hazard to the user of the equipment.

Nowadays, we have a device known as a ***"safety capacitor"***, which is designed to fail open rather than shorted. These devices carry certain ratings that indicate the level of protection afforded by the capacitors.

Table 1 (See Page 22) shows the rating values for "X" connected safety capacitors, while **Table 2** shows similar rating values for "Y" connected safety capacitors. The safety capacitors that I typically use are 0.01µF X1-440V/ Y2-300V ±20% Y5V-type ceramic disc safety capacitors. The capacitors originally installed in the Ameco PT Preamplifier were 0.01µF 150VAC/1400VDC Z5U-type ceramic discs, and there were as already mentioned two of them, connected in the "Y" configuration from each of the AC line leads to chassis ground. As these capacitors are not safety types, and are therefore just as likely to fail shorted as they are to fail open, they needed to go.

Once the new safety capacitors were installed **(Figure 4 - See Page 22)**, the unit was tested for proper operation one more time, and then the job was considered finished. I put the cover back onto the chassis and tied up the connected cables for return to Darrell.

At The Repair Bench - Continued on page 22

At The Repair Bench - Continued from page 21

Subclass (IEC 60384-14)	Peak Voltage Pulse (while in service)	Peak Impulse Before Endurance Test
X1	>2.5kV ≤4.0kV	4kV per C ≤ 1µF 4/√C kV per C > 1µF
X2	≤2.5kV	2.5kV per C ≤ 1µF 2.5/√C kV per C > 1µF
X3	<1.2kV	None

Table 1 : "X" Capacitor Ratings

Subclass (IEC 60384-14)	Rated Voltage	Peak Impulse Before Endurance Test
Y1	≤500VAC	8kV
Y2	150VAC ≤ V <300VAC	5kV
Y3	150VAC ≤ V <250VAC	None
Y4	<150VAC	2.5kV

Table 2 : "Y" Capacitor Ratings

So… what lessons can be learned from this repair? Once again, it is the capacitors that almost always seem to be the earliest failure items in most electronic circuits. In a way, that makes sense, as the capacitors are the only components that have internal materials or structures that are guaranteed to deteriorate over time. Now, I am speaking about the electrolytics here, of course. But, if one looks back at my last dozen or so ***At The Repair Bench*** articles, how many of them came down to capacitor failures? I think that you will get the point.

See you next month!

Figure 4 : Chassis Top Side - Note Blue Safety Capacitors

Field Day : June 28 - 29, 2025

Band, Operators, & Operating Modes Chart

Band	Operator (Contact)	Mode
160 Meters		All Modes
80 Meters		Phone
80 Meters	Darrell Neron AB2E	CW
80 Meters		Digital
40 Meters	Bill Price NJ2S	Phone
40 Meters	Sheldon Parker K2MEN	CW
40 Meters	Melissa Guenther KE2BWZ	Digital
20 Meters	Chris Prioli AD2CS	Phone
20 Meters	Tony Starr K3TS	CW
20 Meters	Eric Morris N2BRJ	Digital
15 Meters	Greg Ciraula K3GC	Phone
15 Meters	Darrell Neron AB2E	CW
15 Meters		Digital
10 Meters	Jim Wright N2GXJ	Phone
10 Meters		CW
10 Meters	Jim Wright N2GXJ	Digital
6 Meters		All Modes
2 Meters	Herb Dyer KT2Y	All Modes
70 Centimeters	Herb Dyer KT2Y	All Modes
GOTA (Get On The Air) Station	Karl Frank W2KBF	All Modes
Satellite	John O'Connell K2QA	All Modes

Field Day : June 28 - 29, 2025

Support Staff and Bonus Points Information

Section	Support Staff / Bonus Points	Primary Contact	Points Available
	Culinary Support Staff	Jeff Garth WB2ZBN (Etc.)	*Priceless !!!*
7.2	Power Multiplier	Jim Wright N2GXJ	x2 (for Class A if all <100 Watts)
7.3.1	100% Emergency Power	Jim Wright N2GXJ	100 Points/TX, Max 2000 Points
7.3.2	Media Publicity	Mike Resnick N2WOQ	100 Points (Submit Evidence)
7.3.3	Public Location	Jim Wright N2GXJ	100 Points
7.3.4	Public Information Table/Booth	Mike Resnick N2WOQ	100 Points (Submit Evidence)
7.3.5	Formal Message To ARRL SM/SEC	Karl Frank W2KBF	100 Points (Submit Evidence)
7.3.6	NTS/ICS-213 Messages Handled (# Msgs)	Karl Frank W2KBF	10 Points/Each, Max 100 Points (Submit Evidence)
7.3.7	Satellite QSO	John O'Connell K2QA	100 Points/1, Max 100 - In Log Band SAT
7.3.8	Alternate Power QSOs (Min 5)	Herb Dyer KT2Y	100 Points (Separate Log, Submit Evidence)
7.3.9	W1AW Bulletin	Bruce Canino KD2LBU	100 Points (Submit Copy As Evidence)
7.3.10	Educational Activity Bonus	Chris Prioli AD2CS	100 Points
7.3.11	Site Visit By Elected Governmental Official	Mike Resnick N2WOQ	100 Points
7.3.12	Site Visit By Representative Of ARES Served Agency	Mike Resnick N2WOQ	100 Points
7.3.13.1	GOTA Bonus (Names, Modes, #QSO Each)	Karl Frank W2KBF	5 Points/Each QSO, No Limit (Submit Evidence)
7.3.13.2	GOTA Coach Bonus Claimed	Karl Frank W2KBF	100 Points (Submit Evidence Min 10 QSO)
7.3.14	Web Submission	Melissa Guenther KE2BWZ	50 Points
7.3.15	Youth Element Bonus (18 or Under, #QSO	Radio Chairs (Records Required)	20 Points/Each, Max 100 Points
7.3.16	Social Media Bonus (FB, Twitter, Etc.)	Jeff Garth WB2ZBN	100 Points
7.3.17	Safety Officer Bonus (Class A Only)	Herb Dyer KT2L Ron Block NR2B	100 Points (Submit Evidence)
7.3.18	Site Responsibilities (Class B, C, D, E, F Only)	N/A For W2MMD	50 Points

Operating Tip : Eliminate wasted words.

Thanks to Dan Zeitlin, K2YWE, and Contest University

Avoid phrases like "please copy" and "thank you for." The quicker and more efficient each QSO is, the higher your net rate will be.

Field Day : June 28 - 29, 2025

Food / Supply / Help Donations

Donation	Name
(36) Hot Dogs	Glen Guenther KE2BUO & Melissa Guenther KE2BWZ
(36) Hamburgers	Mike Resnick N2WOQ
Rolls - Hot Dogs & Hamburgers	Mike Resnick N2WOQ
Meatballs	Kathy Romeo
Verchio's Hoagies - (14) Ordered June 14, 2025 Kathy will pick up Saturday 28th AM	Frank Romeo N3PUU Kathy Romeo
Potato Salad	Kerri Caguiat K2CAG
Pasta Salad	Earl Moore KC2NCH
Macaroni Salad	
Green Salad	
(6) Dozen Eggs	Angela Metzger KE2DRJ
Deviled Eggs	Beth Barnish KB2EAL
Baked Beans	Beth Barnish KB2EAL
Sausage & Peppers	Beth Barnish KB2EAL
Water Bottles	Glen Guenther KE2BUO & Melissa Guenther KE2BWZ
(50) Breakfast Sausages	
(30) Hash Brown Potatoes	
Lettuce, Tomatoes, Onion (Sliced)	Jeff Garth WB2ZBN
3 lbs American Cheese	Marylu Ciraula K3MLC
Potato Chips	Marylu Ciraula K3MLC
Pretzels	Marylu Ciraula K3MLC
Ice (Needed for both days)	Beth Barnish KB2EAL
Baked Mac & Cheese	
BBQ Operator	
Desserts	Karen Garth Marie Farney
Kitchen Helpers	Beth Barnish KB2EAL Kathy Romeo Jonathan Romeo

Operating Tip : When a station requests a fill, give only the information that is asked for. Do not repeat the entire exchange, it wastes your time, and theirs.

Amateur Radio Emergency Services - June 2025
Resources - News - Updates

By Bob Keogh KD2NEC - kd2nec@qsl.net
Gloucester County Emergency Coordinator

In our May CrossTalk article, we talked about preparing for any type of disaster. This month we will talk specifically about disasters due to tornados.

On May 18, 2025, the news reported the impact of tornadoes in Kentucky and Missouri.

What to Do Before, During and After a Tornado

According to NOAA, there were over 1,400 tornadoes in 2017. And while tornadoes can strike whenever they please, they're most likely to wreak havoc from April onward until the clock strikes midnight on your summer.

It's no secret that tornadoes seriously blow, leaving devastation and destruction in their wake. Most importantly, your favorite television meteorologist can't always predict when they're coming. This makes it even more important that you know what to do before, during and after a tornado hits.

Before the Tornado

Any steps you take before the tornado are about planning and being alert to your surroundings. You can do so through the following :

- **Know the Signs :** Know what alarms or notifications the government uses for tornado watches or warnings.
- **Plan Ahead :** Have a dress rehearsal to make sure everyone is fully prepared to take responsibility for his or her own safety.
- **Watch the Weather :** Changing weather patterns are like a cheat sheet telling you a tornado might be coming. Pay attention to weather reports and rely on your own instincts and experience.
- **See for Yourself :** Nature doesn't try to pull a fast one when a tornado is coming. Look for a dark, greenish sky, a wall of clouds and large, grapefruit-sized hail.
- **Listen :** Aside from the alarms, some say tornadoes produce a roar similar to a train.

During the Tornado

There's a tornado literally at your doorstep. Don't stop, drop and roll. Instead, do this :

- **Go Underground :** If there's no basement, a small room in the middle of the house is best. And since windows can break, stay away from them at all costs.
- **Go Underneath (Furniture) :** Hold on to a heavy table or desk and use your arms to protect your head and neck. It could save your life.
- **Know When to Leave :** If you live in a mobile home, even if it has tie-downs, you should seek safer shelter (if possible).
- **Stay Flat :** If your home isn't safe, go outside and lie flat on the ground with your hands over your head and neck.
- **No Ridin' Dirty :** If you're in a car, get out and get inside or lie down in a low area. If you're outside, lay with your hands over your head and neck.
- **Get Low :** If you're in a high-rise building, go to an interior room on the lowest floor. The whole "window breaking" thing still applies, so stay away from them.

SNJ ARES Update - Continued on page 27

SNJ ARES Update - Continued from page 26

After a Tornado

Once the tornado has passed, check for people who might've been injured or trapped. Do not move them unless they are in immediate danger of further injury. Call for help. Celebrate your newfound heroism. Then look around, and survey what you might've lost for your impending **insurance claim (https://www.trustedchoice.com/homeowners-insurance/claims)**.

Making an Insurance Claim Following a Tornado

Your **homeowners insurance policy (https://www.trustedchoice.com/homeowners-insurance)** has coverage for natural disasters. If you have questions about how your homeowners insurance protects your property from damage from tornadoes, contact a Trusted Choice ® Independent Agent - they'll know exactly what you get from your policy.

ARES Resources (Updated as of November 2024)

ARRL ARES Registration Form : https://bit.ly/3Ae2pCf
Download the ARES Manual [PDF] : https://bit.ly/3iUhJLQ
ARES Field Resources Manual [PDF] : https://bit.ly/3QT4PtY
ARES Standardized Training Plan Task Book July 2024 Ver. 3.0 [Fillable PDF] : https://bit.ly/4dToEes
ARES Standardized Training Plan Task Book July 2024 [Word] : https://bit.ly/4heLXSU
ARRL ARES Plan July 2024 : https://bit.ly/3Uf8gyf
ARES Group Registration : http://bit.ly/3XodGpX
ARRL Emergency Communications Training : http://bit.ly/3J2gMMf
FEMA 2023 National Preparedness Report : https://bit.ly/3YrPWnY
Southern New Jersey Section Emergency Operations Plan 2023.PDF : https://bit.ly/3YqMdHb
ARRL ARES Monthly Newsletters : https://bit.ly/408OV5d

The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable but is not a requirement for membership.

If you are interested in learning more about the Gloucester County ARES Program or becoming an ARES member, please contact Bob Keogh (KD2NEC@QSL.NET)

GOLIATHON

Goliathon Obstacle Challenge
Saturday, June 7, 2025
Gloucester County 4-H Fairgrounds

More information can be found at :
https://www.goliathon.com

Club Member	DMR ID
W2MMD Clubhouse	3198604
Michael Andrescavage N2ICV	3134044
Lance Appel KE2UC	3200487
Joshua Boylan KE2FSC	3216140
Alex Calabrese WA2ADS	3100583
Chuck Capasso WB2PGE	3169781
Matthew Carango N3QB	3169432
Todd Cecilio KA2YNT	3169458
Anthony Cerami N2OAC	3202759
Mark Clark N3QMJ	3102110
Norm Coltri K2NRC	3183851
Holden Correia-Fisher KD2JPV	3104911
Mike Covaleski N2MMC	3134855
Walter Coward WX2E	3166863
Bob Demola KD2GFL	3134319
Doug Dersch KD2VQA	3193630
Thomas Distelcamp Sr KC2GYC	3110869
Glenn Dougherty N2YIO	3161836
Adam Duncan W3DUN	3202691
Herb Dyer KT2Y	3134907
Harry Elwell AD5TT	3128498
Misael Fernandez Jr KE2EBL	3214756
James Foster W3JNF	3142117
Karl Frank W2KBF	3146716
Glen Guenther KE2BUO	3202079
Melissa Guenther KE2BWZ	3202496
Deirdre Anne Hebert AD2GQ (AB1ST)	3133330
Gary Hewitt N2WHV	3134654
Chuck Lanard KD2EIB	3134298

Club Member	DMR ID
Darren Malone KD2ALQ	3215227
Gary Mirkin WA3SVW	3165494
John Murrow KD2NHK	1134122
John Newman WB4YLM	3213273
Phil Nunzio WA3RGY	3134336
John O'Connell K2QA	3110610
Robert Pantazes W2ARP	3157208
Sheldon Parker K2MEN	3214037
Jonathan Pearce WB2MNF	3163415
Michael Pecorini K2MRP	3132996
Michael Pentimall KC3VTF	3203601
John Price III KD2QYC	3123583
Chris Prioli AD2CS	3195449
Michael Resnick N2WOQ	3215856
Frank Romeo N3PUU	3134935
Len Rust III W2LJR	3186225
Len Rust IV K2LJR	3196243
Dave Sheppard W2PAX	3112666
Cory Sickles WA3UVV	1142052
James Simeone KC2AOF	3134848
Stan Slachetka WA2JRZ	3213904
Court Smith KD2SPJ	3186243
Jackson Snyder AI2D	3164371
Rich Subers W2RHS	3204316
Brett Waller K2BKW (KC2UXQ)	3134261
Matt Wilson K2MFW	3134607
Bill Wood KD2OSJ	3197459
Jim Wright N2GXJ	3215168
John Zaruba Jr K2ZA	3134331
New Entries As Of 05/16/2025	

For more information, DMR links, and W2LJR's DMR presentations, go to :
https://gloucestercountyarc.weebly.com/dmr.html

Operating Tip

Remember the K3ZO (SK) "Rule of Twice"Thanks to Dan Zeitlin, K2YWE, and Contest University

If you can't get them after calling twice, move on to another station. Additionally, you should move on if you come across a station "running" and they don't give their call sign after transmitting twice.

DMR Configuration Sequence

1. **Obtain and Configure DMR ID :**
   - **https://www.radioid.net**
2. **Download Contact List :**
   - **http://www.dmrcontacts.com**
3. **Identify Repeater or Hotspot :**
   - **https://www.repeaterbook.com**
4. **Define Talk Groups**
   - **Numerical ID**
   - **Text Name**

https://brandmeister.network/?page=talkgroups

5. **Create Channel**
   - **Select Number**
   - **Assign Name**
   - **Select DMR ID**
   - **Assign Frequency**
     - **Transmit**
     - **Receive**
     - **Bandwidth**
     - **Power**
     - **DMR Mode (Simplex/Repeater)**
     - **TX Permit (Channel Free)**
   - **Assign Talk Group**
   - **Assign Color Code**
     - **Agreed Upon with Other Users**
   - **Assign Time Slot**
   - **Agreed Upon with Other Users**

6. **Create Zone**
7. **Add Channels to Zones**
8. **Configure Features**
9. **Upload Code Plug**
10. **Upload Contact List**

If you recently changed your callsign, contact idteam@dmr-marc.net to have your DMR ID transferred to your new callsign.

May 10, 2025 Tech Saturday Forum : Building a Dummy Load/Wattmeter
Excellent Turn-out : 14 participants on May 10 and 9 on May 17

Connecting To GCARC And LOCAL Talk Groups On KD2LNB Repeater

By Jon Pearce WB2MNF

Several members have asked for detailed instructions about connecting to the new KD2LNB repeater at Rowan University. Here are instructions for using the OpenGD77 radios supported by GCARC for this operation. For more information refer to the W2MMD Skunkworks website at **skunkworks.w2mmd.org** on the Projects > DMR page.

General Prerequisites

- **Obtain a DMR ID :**
  - ♦ If you don't have a DMR ID, register on Brandmeister by first obtaining an ID at RadioID.net with your amateur radio callsign, then link it to a Brandmeister account at Brandmeister.network.
- **Repeater Details :** KD2LNB is a GCARC repeater on the Brandmeister network, operating on 440.10625 MHz with Color Code 1 (CC1). Specific talk groups are :
  - ♦ GCARC Talk Group : TG 2 on Timeslot 2 (TS2, private talk group).
  - ♦ LOCAL Talk Group : TG 9 on Timeslot 2 (TS2, private talk group).
  - ♦ Worldwide Talk Group : TG 91 on Timeslot 1 (TS1, dynamic talk group).
  - ♦ Parrot Talk Group : TG 9990 on TS1 (dynamic talk group, for testing audio).
  - ♦ Other talk groups may be added and used on TS1
- **Timeslot Usage :** TS1 is used for dynamic talk groups (e.g., TG 91, TG 9990), and TS2 is used for private talk groups (e.g., TG 2, TG 9).

For OpenGD77 Radios (e.g., GD-77, DM-1701)

- **Verify OpenGD77 Firmware :**
  - ♦ This guide assumes your radio has the OpenGD77 firmware installed. If not, visit the GCARC Clubhouse on a Saturday morning for assistance with installation.
- **Download OpenGD77 CPS :**
  - ♦ Get the OpenGD77 CPS software from opengd77.com.
- **Program the Codeplug Using OpenGD77 CPS :**
  - ♦ Open the OpenGD77 CPS software.
  - ♦ **Create Digital Contacts :**
    - ◊ Add GCARC (TG 2), LOCAL (TG 9), Parrot (TG 9990), and Worldwide (TG 91) as contacts.
    - ◊ For each: Set "Contact Name" (e.g., "GCARC," "LOCAL," "Parrot," "Worldwide"), "Call Type" to "Group Call" for GCARC/LOCAL/Worldwide and "Private Call" for Parrot, and "Call ID" to the respective talk group numbers.
  - ♦ **Create a TG List :**
    - ◊ Under "TG Lists," create a list named "KD2LNB TGs."
    - ◊ Add GCARC (TG 2), LOCAL (TG 9), Parrot (TG 9990), and Worldwide (TG 91) to this list.
  - ♦ **Program the Channels :**
    - ◊ Add two channels for KD2LNB :
      - ⇒ Channel 1 : "KD2LNB-TS2" (frequency 440.10625 MHz, CC1, TS2, TG List "KD2LNB TGs").

DMR KD2LNB Repeater Quick Start - Continued on page 31

DMR KD2LNB Repeater Quick Start - Continued from page 30

⇒ Channel 2 : "KD2LNB-TS1" (frequency 440.10625 MHz, CC1, TS1, TG List "KD2LNB TGs").

- Write the codeplug to the radio.

- **Test with Parrot (TG 9990) :**
  - Select the "KD2LNB-TS1" channel.
  - Use the radio's large knob to select TG 9990 from the TG List (or manually enter 9990 via numerical entry).
  - Key up and speak a short test message (e.g., "This is [your callsign] testing"). Parrot will echo your transmission, allowing you to verify audio quality and connectivity before proceeding.
- **Connect to KD2LNB Talk Groups :**
  - After testing with Parrot, you can connect to the LOCAL (TG 9) or GCARC (TG 2) talk groups on the "KD2LNB
  - TS2" channel, or to Worldwide (TG 91) on the "KD2LNB-TS1" channel if you want to converse with stations around the world.
  - Use the large knob to select the desired talk group from the TG List and key up to dynamically activate it on Brandmeister (active for ~15 minutes).
- **Filter Talk Groups :**
  - If hearing unwanted talk groups, use the Quick Menu (red button near the antenna) to set the DMR Filter to "TG," ensuring only the selected TG List talk groups are received.

Connecting KD2LNB Repeater to Worldwide Talk Group (TG 91)

- **TG 91, the Worldwide talk group**, connects you to DMR users globally, enabling communication with operators across continents. It's ideal for DX (long-distance) contacts, networking with hams worldwide, and participating in global nets, offering a broader reach than local or regional talk groups like GCARC or LOCAL. Since the radio is using 70 cm it's also accessible to Technician class licensees.
- **Brandmeister Dynamic Connection :** KD2LNB supports dynamic talk group connections on Brandmeister. Keying up on TG 91 links the repeater to the Worldwide talk group on TS1.
- **Connect to TG 91 :**
  - TG 91 is already in the "KD2LNB TGs" TG List from the codeplug setup.
  - Select the "KD2LNB-TS1" channel on TS1.
  - Use the large knob to select TG 91 from the TG List (or manually enter 91).
  - Key up to link KD2LNB to TG 91 (active for ~15 minutes on Brandmeister)

Blue, Wine & BBQ
June 21 - 22, 2025
1200 to 1700 Hours
Glassboro Town Square

More information can be found at :
https://newjerseywineevents.com/events/blues-wine-bbq

2024-2028 Element 4 Amateur Extra Class License Question Quiz

This month we start up with Subelement E3 Radio Wave Propagation (3 exam questions - 3 groups).
(Answers on Last Page)

E3A01
What is the approximate maximum separation measured along the surface of the Earth between two stations communicating by EME?
A. 2,000 miles, if the moon is at perigee
B. 2,000 miles, if the moon is at apogee
C. 5,000 miles, if the moon is at perigee
D. 12,000 miles, if the moon is "visible" by both stations

E3A02
What characterizes libration fading of an EME signal?
A. A slow change in the pitch of the CW signal
B. A fluttery, irregular fading
C. A gradual loss of signal as the sun rises
D. The returning echo is several hertz lower in frequency than the transmitted signal

E3A03
When scheduling EME contacts, which of these conditions will generally result in the least path loss?
A. When the Moon is at perigee
B. When the Moon is full
C. When the Moon is at apogee
D. When the MUF is above 30 MHz

E3A04
In what direction does an electromagnetic wave travel?
A. It depends on the phase angle of the magnetic field
B. It travels parallel to the electric and magnetic fields
C. It depends on the phase angle of the electric field
D. It travels at a right angle to the electric and magnetic fields

E3A05
How are the component fields of an electromagnetic wave oriented?
A. They are parallel
B. They are tangential
C. They are at right angles
D. They are 90 degrees out of phase

E3A06
What should be done to continue a long-distance contact when the MUF for that path decreases due to darkness?
A. Switch to a higher frequency HF band
B. Switch to a lower frequency HF band
C. Change to an antenna with a higher takeoff angle
D. Change to an antenna with greater beam width

Element 4 Amateur Extra Class Quiz - Continued on page 33

Element 4 Amateur Extra Class Quiz - Continued from page 32

E3A07
Atmospheric ducts capable of propagating microwave signals often form over what geographic feature?
A. Mountain ranges
B. Stratocumulus clouds
C. Large bodies of water
D. Nimbus clouds

E3A08
When a meteor strikes the Earth's atmosphere, a linear ionized region is formed at what region of the ionosphere?
A. The E region
B. The F1 region
C. The F2 region
D. The D region

E3A09
Which of the following frequency ranges is most suited for meteor-scatter communications?
A. 1.8 MHz - 1.9 MHz
B. 10 MHz - 14 MHz
C. 28 MHz - 148 MHz
D. 220 MHz - 450 MHz

E3A10
What determines the speed of electromagnetic waves through a medium?
A. Resistance and reactance
B. Evanescence
C. Birefringence
D. The index of refraction

E3A11
What is a typical range for tropospheric duct propagation of microwave signals?
A. 10 miles to 50 miles
B. 100 miles to 300 miles
C. 1,200 miles
D. 2,500 miles

E3A12
What is most likely to result in auroral propagation?
A. Meteor showers
B. Quiet geomagnetic conditions
C. Severe geomagnetic storms
D. Extreme low-pressure areas in polar regions

Element 4 Amateur Extra Class Quiz - Continued on page 34

Element 4 Amateur Extra Class Quiz - Continued from page 33

E3A13
Which of these emission modes is best for auroral propagation?
A. CW
B. SSB
C. FM
D. RTTY

E3A14
What are circularly polarized electromagnetic waves?
A. Waves with an electric field bent into a circular shape
B. Waves with rotating electric and magnetic fields
C. Waves that circle Earth
D. Waves produced by a loop antenna

Amateur Spectrum Addressed In US House Reconciliation Bill

ARRL reports that early this morning, May 22, 2025, the US House of Representatives passed a massive Reconciliation bill with the below spectrum provisions relevant to Amateur Radio.

Within two years not less than 600 megahertz must be identified from between 1.3 and 10 GHz for reallocation to commercial use for broadband services.

The identified spectrum must be auctioned by the FCC for such services on an exclusive, licensed basis as follows: not less than 200 megahertz within three years (mid-2028) and the remaining spectrum (at least 400 megahertz) within six years (mid-2031).

Excluded from spectrum that could be reallocated for these purposes is 3.1 - 3.45 GHz (which includes the temporary secondary Amateur band at 3.300 - 3.450 GHz) and 5.925 - 7.125 GHz.

With regard to Amateur spectrum, the bands that potentially could be subject to consideration for reallocation under this legislation are 13 cm (2300 - 2310 & 2390 - 2450 MHz) and 5 cm (5650 - 5925 MHz). At this time a number of bands have been mentioned informally for consideration, none of which include Amateur spectrum. But the bands under consideration could change and ARRL will closely monitor the evolving situation.

Additionally, some government operations may be required to consolidate in current Amateur secondary spectrum that is already shared with those government uses. In select instances this might constrain Amateur operations if such consolidation occurs.

It is to be emphasized that these provisions have been passed by the House, but key US Senators have not agreed to some aspects and have stated their intention to modify these provisions as the bill moves through Senate consideration. The stated goal for final enactment is by July 4, 2025.

Article Credit : The ARRL Letter for May 22, 2025 - **www.arrl.org**

Regional Skywarn Websites For On-Line And In-Person Training Classes

Philadelphia/Mt Holly Skywarn : www.weather.gov/phi/skywarn
State College, PA Skywarn : www.weather.gov/ctp/skywarn
Pittsburgh, PA Skywarn : www.weather.gov/pbz/skywarn

Weather Information Nets & Frequencies

Hurricane Watch Net : www.hwn.org

- **Day Time : 14.325 MHz**
- **Night Time : 7.268 MHz**
- **Information : 14.300 MHz**

Local SKYWARN Frequencies :

- **Atlantic County : K2BR, 146.745 MHz (-) 146.2 Hz**
  - ◊ **Net Every Monday @ 1900 Hours**
- **Camden County : K2EOC, 146.895 MHz (-) 91.5 Hz**
  - ◊ **Net Every Thursday @ 2030 Hours**
- **Cumberland County : KE2CK, 146.805 MHz, (-) 118.8 Hz**
  - ◊ **Net Every Monday @ 1930 Hours**
- **Gloucester County : W2MMD, 147.180 MHz (+) 131.8 Hz**
  - ◊ **Net Every Sunday @ 1930 Hours**
- **Salem County : N2KEJ, 146.625 MHz (-) 131.8 Hz**

Never Too Soon To Think About Volunteering For The Bike MS!

Bike MS : City To Shore Ride 2025
September 27 - 28, 2025

Bike MS : Bike To The Bay (Delaware) 2024
October 4, 2025

N3MSS Amateur Radio Communications
Bike MS Volunteers : www.n3mss.org

n3mss.org website not yet updated for 2025

Club Merchandise from the K2ZA Workshop
Contact John Zaruba Jr K2ZA at k2za@icloud.com
Go To : https://gloucestercountyarc.weebly.com/club-merchandise.html

ARRL FIELD DAY 2025

Be a part of the **most popular on-the-air operating event** in amateur radio. Join your local community and get in on the action!

PARTICIPATE IN YOUR LOCAL ARRL FIELD DAY JUNE 28-29, 2025

Gloucester County Amateur Radio Club
Gloucester County 4-H Fairgrounds
235 Bridgeton Pike
Mullica Hill, NJ

www.arrl.org/FieldDay

What is ARRL Field Day? You're Invited!

ARRL Field Day is a radio communications event that brings together amateur radio operators (also called "hams") within your community. The theme for 2025 Field Day is "Radio Connects" – highlighting the many ways that wireless technology connects people across distances near and far. The event is part picnic, campout, practice for emergencies, informal contest, and most of all, fun! ARRL Field Day is the most popular ham radio activity held annually in the US and Canada. On the fourth weekend in June each year, more than 31,000 hams get together with their radio clubs, schools, or friends to operate from remote locations.

For many radio clubs, ARRL Field Day is one of the highlights on their annual calendar. A typical Field Day site will showoff many aspects of amateur radio and its many roles.

Some groups use Field Day as an opportunity to practice their emergency communications readiness. ARRL Field Day is an annual demonstration and invites the general public and organizations to see how amateur radio can serve in an emergency, **When All Else Fails**®. Hams are well-known for their communications support in real disaster and post-disaster situations. Despite the development of very complex, modern communications systems — or maybe because they are so complex — ham radio has been called into action, again and again, to provide communications in crises when it really matters.

Amateur radio also inspires the next generation of technical leaders by providing a hands-on sandbox where students gain experience in the fields of science, technology, engineering, and mathematics (STEM).

For those with a competitive spirit, Field Day stations compete to make radio contacts with as many other stations as possible while learning to operate radio equipment in challenging situations and less-than-optimal conditions. These same skills are used by hams who volunteer to help with large, preplanned, non-emergency events such as marathons and bike-a-thons; fundraisers such as walk-a-thons; celebrations such as parades, and exhibits at fairs, malls, and museums.

Who is ARRL?

With more than 137,000 members, ARRL is The National Association for Amateur Radio in the US. Our mission is to promote and protect the art, science, and enjoyment of amateur radio, and to develop the next generation of radio amateurs. ARRL and our affiliated radio clubs provide benefits to members to discover radio, to develop new skills, and to serve your local community.

What is Amateur Radio?

Often called "ham radio," the Amateur Radio Service is a worldwide community of licensed operators using the airwaves with every conceivable means of communications technology. It is made up of people who enjoy learning and being able to transmit voice, data, and pictures through the airwaves to places near and far without depending on commercial systems. The amateur radio frequencies are the last remaining place in the usable radio spectrum where an individual can develop and experiment with wireless communications. Not only can hams build and modify their equipment, but they can also create new ways to communicate via the airwaves — and do it as a globally connected community. Many people in the hobby form lifelong friendships with people they wouldn't have otherwise met. Many rock stars, Hollywood actors, and heads of state (and even your neighbor down the street) are ham radio operators. You can be, too! Get started at ARRL Field Day!

ARRL The National Association for Amateur Radio®

www.arrl.org/FieldDay

Order Official ARRL Field Day Gear
www.arrl.org/shop/FieldDay

Annual CERT Picnic - Southwest Florida

On February 28, members of the Fort Myers Amateur Radio Club and LeeARES (Lee County ARES team), as well as staff from the Southwest Florida Traffic Net, attended the annual CERT picnic in North Fort Myers. Several amateur radio participants checked into the SWFTN (Southwest Florida Traffic Net) from the site, showing attendees how a traffic net operates. The NTS2 brochure was available at the table for distribution. FMARC President and SWFTN net control station Carmine Vetrano, K1CJV, said "Attendees were impressed with the ability of the SWFTN in being able to get welfare messages out of the area via radio. Very few of them were aware that NTS messaging was even available."

SWFL PARTNERS IN AMATEUR RADIO
Serving Lee County And Surrounding Communities
Fort Myers Amateur Radio Club
Lee County ARES

NTS at Florida CERT Picnic. Pictured left to right : Steve Clayton, K4SJC, FMARC Past President & LeeARES member; Carmine Vetrano, K1CJV, FMARC President, Lee ARES member & SWFTN net control station, and Ron Hendershot, KA8FTP, FMARC & LeeARES member.

Taking advantage of cooperation between local clubs, ARES, and CERT teams is the grassroots approach to expanding the reach of the National Traffic System. The Southwest Florida Traffic Net operates Monday through Saturday at 10 AM on the N1NQU repeater in Fort Myers.

Submitted by Dave Sheppard, W2PAX, SWFTN Net Manager, SFL STM

Article Credit : NTS Letter for April 1, 2025 - www.arrl.org

Florida QSO Party 2025
April 26, 2025

Call : K3TS
Operator (s) : K3TS
Station : K3TS

Class : SOAB (A) Mixed LP
QTH : WPA
Operating Time (hrs) : 4:44
Location : Out of State/Province

Summary :

Band	CW Qs	Ph Qs
40 :	28	12
20 :	38	28
15 :	5	0
10 :	0	0

Total : 71 40 CW Mults : 33 Ph Mults : 23
Total Score : 10,192

Club : Frankford Radio Club 035

Comments :
Limited time available on Saturday, and none on Sunday, helped to make this a very minimal effort. Poor conditions on 15m and 10m, and a lack of multipliers pretty much ensured a low score for me, to match my effort. Better luck next time, I hope, but for now, 73 to all the FL stations. de K3TS

Field Day 2025 and the NTS Traffic Handler

Field Day is said to be the highlight of the year for amateur radio operators. It is held annually on the fourth weekend in June, which this year falls on June 28 and 29. There is something for almost any amateur radio operator. It is perhaps foremost an exercise in emergency preparedness, one of the primary reasons for the existence of the Amateur Radio Service. It takes great skill to be able, within a short period of time, to set up multiple stations capable of various modes, and operate without public infrastructure. While not an official contest, it offers the contester the thrill of making multiple contacts, scoring many points for their club or group. For those who enjoy outdoor activities such as POTA and SOTA, it is an opportunity to show off their skills in setting up portable stations. For many, this is also a big social event, offering cookouts and early morning breakfasts.

An important factor, however, may be overlooked, and that is the opportunity to demonstrate the messaging service capabilities of the National Traffic System, especially in an emergency. NTS operators, as all amateurs, can show off this capability first by publicizing the event, encouraging people to come and see hams in action. Welcome them and offer information about amateur radio and how it is still very active in today's world of technology. A second way is to demonstrate our messaging services that can be available in a disaster or situation when public infrastructure is unavailable. ARRL encourages this by offering extra points for transmitting formal written messages in the form of radiograms from any Field Day site. One hundred points can be counted for a radiogram to the Section Manager or Section Emergency Coordinator and another 100 points for 10 radiograms to friends and families, all sent over radio frequencies from the Field Day site. NTS traffic handlers have a big part in this activity. Beginning now, when clubs and groups are making their Field Day plans, traffic handlers can reach out to their clubs, encouraging them to take advantage of this activity, not only to gain points but also to help spread the word about amateur radio to others in their communities and beyond. Offer to help on Field Day, either from the site or from home relaying to traffic nets, or teach club members how to format radiograms, find traffic nets or digital outlets, and how to send these radiograms over the air.

From the Field

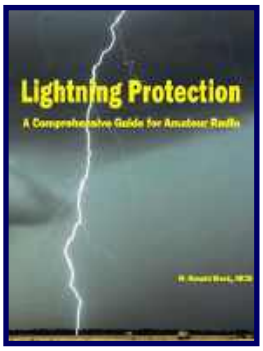
The Southwest Florida Traffic Net will once again support the Fort Myers Amateur Radio Club with handling radiogram traffic for Field Day scoring. A special FD session of the SWFTN will be called at 16:00 Saturday afternoon, during which the primary function will be to accept scoring radiograms from the FD site. Offsite liaison stations will handle the traffic to either the Digital Traffic Network or to the evening Florida HF Net.

If you're in southwest Florida for Field Day 2025, please join us at 16:00ET on the N1NQU 146.820 (136.5-) repeater. All traffic and check-ins are warmly welcomed.

The SWFTN calls Monday through Saturday at 10:00 PM ET on the N1NQU repeater in Fort Myers, Florida. See fmarc.net/swftn for details. - Dave Sheppard, W2PAX, SFL STM & SWFTN Manager

Article Credit : ARRL NTS Letter for May 6, 2025 - www.arrl.org

Lightning Protection :
A Comprehensive Guide for Amateur Radio
Author : W. Ronald Block NR2B
Contact : ron@wrblock.com
Website : www.wrblock.com



Volunteer Monitor Program Report : February 2025

The Volunteer Monitor (VM) Program is a joint initiative between ARRL and the FCC to enhance compliance in the Amateur Radio Service. This is the February 2025 activity report of the VM Program.

- Commendations were issued to operators in Orange and Dana Point, California, for outstanding service on the Orange County Parks and Irvine Fire Watch Net on January 2, during the California wildfires.
- A commendation was issued to an operator in Washington for exceptional courtesy in the CW portion of 40 meters during crowded band conditions.
- A commendation was issued to a repeater operator in Wisconsin for exceptional efforts to instruct new repeater users about DMR technology.
- Technician operators in Alabama, New Jersey, and New York were reminded of the limitations of their licenses regarding FT8 and SSB operation on 40 and 20 meters.
- An operator in Florida was cautioned about the FCC rules limiting the advertising of items for sale.
- An operator in South Carolina was cautioned about transmitting broadcast news items on amateur frequencies.
- An operator in Delaware was reminded about the FCC rule concerning identification by call sign and the rule regarding proper bandwidth.
- There were two FCC meetings. Two cases were referred by the FCC to the VM Program. Those cases were completed and returned to the FCC.

The totals for January 2025 monitoring were 1,498 hours on HF frequencies, and 2,236 hours on VHF frequencies and above, for a total of 3,734 hours.

Volunteer Monitor Program Report : March 2025

The Volunteer Monitor (VM) Program is a joint initiative between ARRL and the FCC to enhance compliance in the Amateur Radio Service. This is the March 2025 activity report of the VM Program.

- A commendation was issued to an operator in Texas for exceptional courtesy and guidance to new operators regarding procedures on the HiFivers 3.908 MHz Friendship Net.
- A commendation was issued to an operator in Florida for exceptional efforts to maintain the Florida SARnet linked repeater system on 446.00 MHz, and for instructing newcomers in net procedures.
- Technician-class operators in Texas, Colorado, and Florida were reminded of the limitations of their licenses regarding FT8 operation on 20 meters. Under FCC rules, Technicians are not allowed 20-meter operation.
- An advisory was issued to a Technician-class operator in Alabama concerning FT8 operation on 15 meters. Technician-class operators in Florida, Texas, and California received advisories regarding FT8 operation on 40 meters. Technicians have no FT8 authority on either 15 or 40 meters.
- An operator in New Jersey was issued an advisory concerning proper identification on 75 meters. Section 97.119(a) requires amateur stations to transmit the assigned call sign at the end of each communication and at least every 10 minutes during a communication.
- A virtual VM Program was presented to the Gateway Amateur Radio Club in Georgia.

The totals for February 2025 monitoring were 1,883 hours on HF frequencies, and 2,260 hours on VHF frequencies and above, for a total of 4,143 hours.

Thanks to Volunteer Monitor Program Administrator Riley Hollingsworth, K4ZDH

Gloucester County Amateur Radio Club
General Membership Meeting Minutes
Wednesday, May 7, 2025

Meeting opened @ 1900 Hours by President Jon Pearce WB2MNF with the Pledge of Allegiance to the Flag

Attendance :

- **In-person : 36**
- **Via Zoom : 17**

Visitors :

- **Alan Wolke W2AEW**
- **Nate Green**
- **Bob Bagienski**

New Members :

- **Joshua Boylan KE2FSC, Pitman, NJ.**
- **Dan Goulianos KE2BPK, (Returning Member), Wenonah, NJ.**
- **Stephen Jordan KB2RGZ, (Returning Member), Franklinville, NJ.**
- **Paul Marchetto W2NKJ, Villanova, PA.**

Announcements :

- **Fox Hunt May 18th @ 1PM**
- **GCARC Family Picnic May 31st, 11AM-2PM @ Red Bank Battlefield Park**
- **Armed Forces Crossband Test May 10th**

Upcoming Clubhouse Events :

- **Wattmeter kit construction activity 5/10 and 5/17**
- **License testing 5/8**
- **BoD meeting 5/21**
- **Dinner at the Clubhouse 5/28**

Member current activities :

- **Alan Wolke W2AEW** recommended the Soldersmoke Podcast : Direct Conversion Receiver project

Business Meeting :

- Minutes of April 2025 business meeting as published in CrossTalk were approved by voice vote of members present.

TREASURER'S REPORT :

- 2025 Year to Date Income and Expense
  - Income : $9,065.40
  - Expense : $5,114.05
  - Net : $3,951.35

Remarks : Treasurer's report approved by voice vote of members present.

May 2025 General Membership Meeting Minutes - Continued on page 42

GLOUCESTER COUNTY AMATEUR RADIO FOUNDATION :

- **John O'Connell K2QA** reported on Foundation account balances.

CLUBHOUSE REPORT :

- **Al Arrison KB2AYU** discussed the latest news on the VHF towers. Antenna installation in the near future.

FIELD DAY :

- **Jim Wright N2GXJ** updated the membership on Field Day preparations. The June 7, 2025 Tech Saturday Forum will be "Field Day for Newbies"

DX AND CONTESTS :

- **Tony Starr K3TS**, via Zoom, provided a report on DX and Contests. See the Contest Calendar in CrossTalk.

PUBLIC SERVICE :

- **Karl Frank WB2KBF** gave an update on the Red Cross Communications trailer project.
- **Charlie Wahl KC2STO** discussed Gloucester County Skywarn activity levels.

HAMFEST :

- **Ron Block NR2B** reported on the latest news regarding the Hamfest on September 7th.

EDUCATION COMMITTEE :

- **Chris Prioli AD2CS** gave a progress report on the current license classes.

TECHNICAL COMMITTEE :

- **Jon Pearce WB2MNF** reported on the Radtel RT-880 "Shack in a Box" radio, Meshtastic, and Green Egg rocket.
- **Angela Metzger KE2DRJ** is recovering from a broken leg but will be attending the ARRL Teacher's Institute regardless.

OLD BUSINESS : None

NEW BUSINESS :

- **John O'Connell K2QA** advanced a motion to amend the Club Budget to increase the Education line item. Seconded and approved by voice vote of members present.

PRESENTATION :

- **"Introduction to VNA and NanoVNA" by Alan Wolke W2AEW**

Meeting adjourned @ 2000 Hours

Respectfully submitted,
John Zaruba K2ZA,
Recording Secretary

Be A Club Volunteer!

Club Technical Volunteer Projects :

- **Processing monthly membership meeting and Tech Saturday videos for the YouTube channel**
- **Assisting the AV team at the Wednesday Night General Membership Meetings**
- **Assisting in the inventory of Clubhouse assets and keeping that inventory current**
- **For the more technically inclined, managing the SatNOGS station, reviewing observations, and adding new satellites to the list of those being tracked**
- **Reviewing new technologies for presentation at meetings or write-ups in CrossTalk.**

For example, the VarAC HF digital communications program has recently been updated, it is installed on the HF station at the Clubhouse, and might provide an opportunity for an interesting short article or presentation

If you would like to volunteer for any of these projects, please contact Jon WB2MNF, Ron NR2B, or Chris AD2CS

Clubhouse Construction Volunteer Projects :

Shed : Build Ramp

Clubhouse :

- **Build Ramp**
- **Replace Interior Front Door**
- **Power Wash Siding**
- **Replace Back Steps**

Lightning Protection Project :

- **Install copper strapping in Library Room**
- **Complete grounding rod installation around Clubhouse and Towers**

Install Utilities On New Front Parking Lot Pole

Install Antennas On New VHF Towers

A *Club* that goes *above* and *beyond* for their communities and for Amateur Radio, is what defines a *Special Service Club (SSC).*

They are the leaders in their Amateur Radio communities who provide active training classes, publicity programs, and actively pursue technical projects and operating activities.

GCARC has been an ARRL Affiliated Club since February 1960 and an SSC since April 2010.

QRP Labs QCX+ 20 Meter CW Transceiver Build - Part 1

By Chris Prioli AD2CS - chris@ad2cs.com - www.ad2cs.com

Figure 1

I got the bug to get back into the build shop for a bit, and I settled on the **QRP Labs QCX+ CW Transceiver (Figure 1)** in the 20-meter flavor as my build of choice. At the same time that I ordered this kit, I also ordered their 50W RF Power Amplifier kit - that will be another article when I get around to building that kit.

The QCX+ is a compact transceiver offered in bare-board kit form with the exception of the two SMT IC's that are pre-soldered to the main printed circuit board (PCB). The heart of this radio is the **ATmega328P microcontroller (see schematic diagram at Figure 2 below)**, accompanied by the Si5351 programmable clock generator and the FST3253 dual 4:1 multiplexer/demultiplexer bus switch, the two of which are the pre-soldered SMT IC's. I should mention that for an additional cost, the radio is also available factory-built and tested.

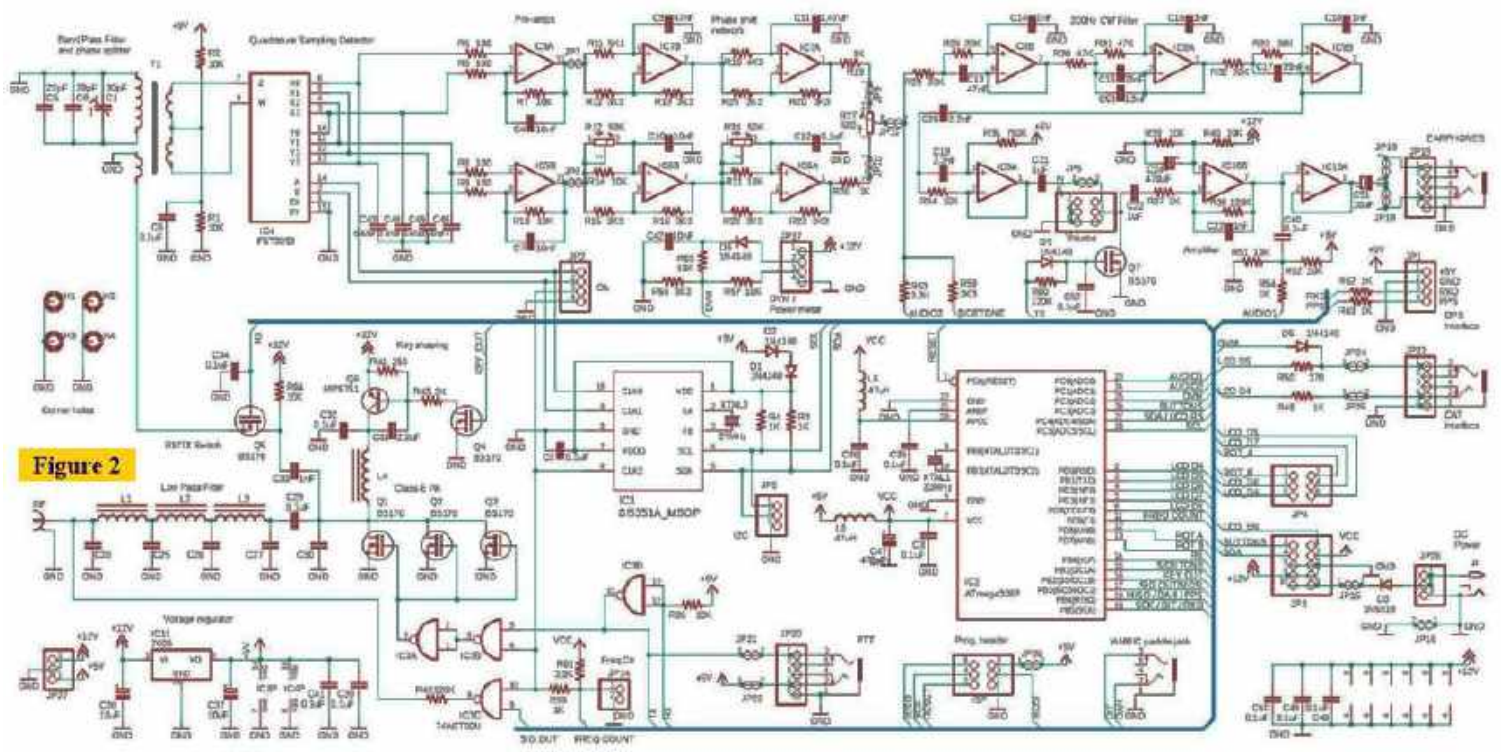


Figure 2

It almost goes without saying that this is a software-defined radio, though it does use a conventional low-pass filter in its design. The power amplifier is a grouping of three BS170 N-channel enhancement mode MOSFET's, which are heat-sinked in a rather unique manner, which we will discuss later. These three transistors are arranged in a Class "E" power amplifier arrangement. In addition to the three transistors used in the PA, three additional BS170 MOSFET's are used as well as a single MPS751, bringing the total discrete transistor count to seven transistors.

QRP Labs QCX+20 Meter CW Transceiver Build - Continued on page 45

QRP Labs QCX+20 Meter CW Transceiver Build - Continued from page 44

This build requires the winding of a total of five toroids, one of which is a four-winding transformer. The radio is equipped with an ISP header for easy programming of firmware updates, and alignment is accomplished via the adjustment of one trimmer capacitor and three multi-turn potentiometers, a relatively simple though tedious procedure. In extreme cases, the alignment procedure may require modification of one or more of the toroids wound during the build, a circumstance largely driven by toroid winding technique and component tolerances.

This radio has a lot to offer in terms of features, including the ability to store up to twelve canned messages for transmission, the first four of which can each be up to one hundred characters in length, while the remaining eight messages are limited to fifty characters each. Radio functions and features are accessed and adjusted through a nested hierarchal menu system which is in turn accessed through the **front panel (see schematic diagram in Figure 3) controls**, which include two pushbutton momentary switches ("Select" and "Exit") and a rotary encoder ("Adjust" and "Save"). The Operation Manual (linked later) includes a convenient "cheat sheet" that describes the nested menu system in sufficient detail for the average user to work with the menu comfortably.

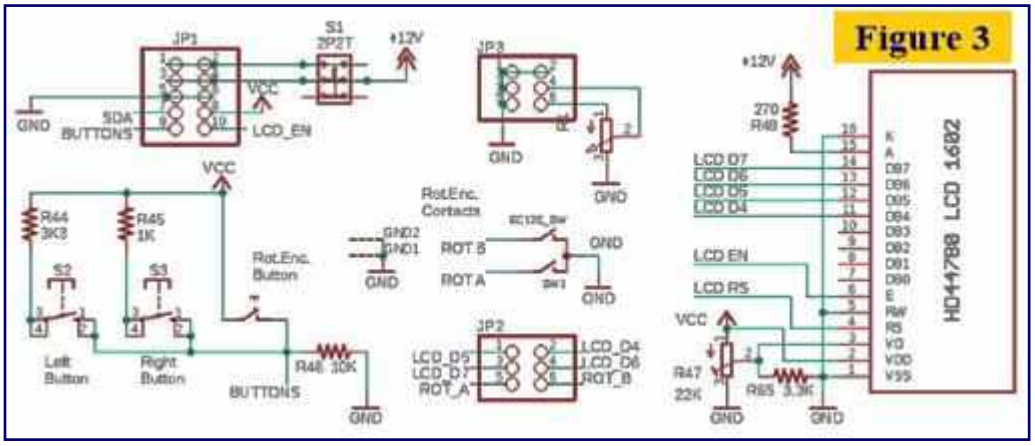


Figure 3

The build is pretty straight-forward. I found it easiest to simply follow the assembly manual steps in their published sequence, even though I am extensively experienced in kit building. The manual sequence just makes sense, and it breaks the build down into logical steps that actually make the task simpler. For example, all of the resistors of a given value are installed together as a single step, instead of jumping around from one value to another and then back to the first again, as is often done in kit build instructions. The manual, available online at **grp-labs.com/images/qcxp/manual111.pdf**, uses a white/grey/red color scheme in the PCB diagrams for each step, to indicate uninstalled components, previously installed components, and those components being installed in the current step, respectively. This makes it very easy to locate and identify the correct location for each and every component being placed.

I will not bore the reader with a step-by-step litany of the build process, but I do want to talk about a few interesting points. Firstly, only the µC IC is socketed; all of the other IC's are soldered directly to the PCB. Next is the arrangement of transistors that form the power amplifier. In this build, a total of four transistors are installed to the PCB (three BS170's and the single MPS751) in an arrangement where the transistors are installed in two opposite pairs. The transistors are bent down with their flat sides flush against the PCB, in a large tinned area of the PCB that serves as a **heat sink pad (Figure 4)**. The center of this pad has a hole drilled through it, around which the transistors are arranged and must remain clear.

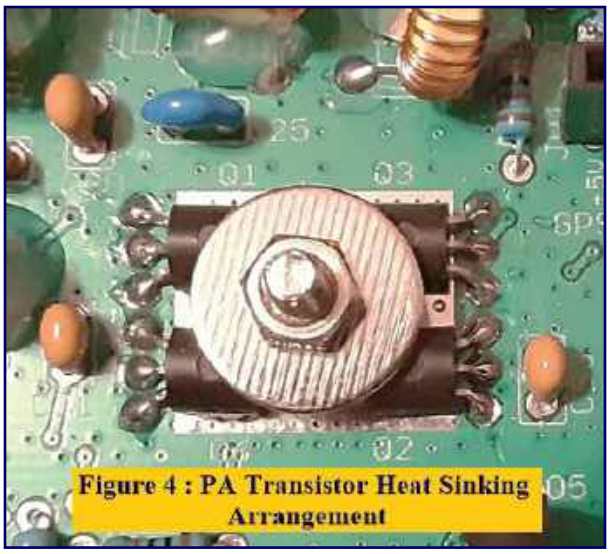


Figure 4 : PA Transistor Heat Sinking Arrangement

QRP Labs QCX+20 Meter CW Transceiver Build - Continued on page 46

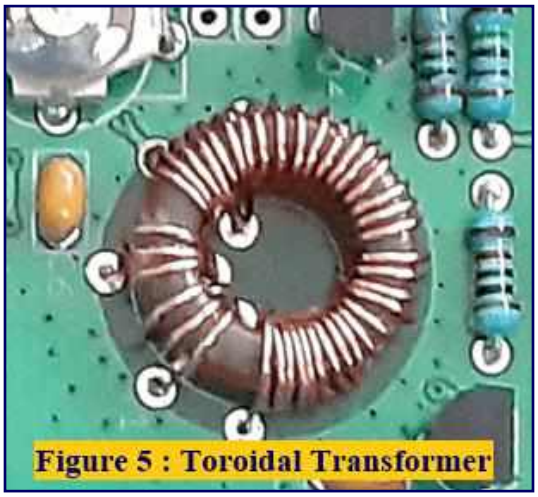


Figure 5 : Toroidal Transformer

A machine screw is installed into this hole from the foil side of the PCB, a steel flat washer is placed onto the screw and down on top of the transistor bodies, and the whole arrangement is secured by a hex nut on the machine screw. This clamps the transistor bodies tightly to the PCB heat sink pad, allowing them to transfer their heat into the PCB. I added a touch of thermal compound to the transistor faces to facilitate better heat transfer, though that process is not mentioned in the manual.

The other point I want to mention is the toroidal transformer with the four windings. In the case of my build, as the band selected was 20 meters, this transformer called for one thirty-turn winding and three three-turn windings. The transformer is then installed flat onto the **PCB (Figure 5)** with each of the winding leads inserted into the proper hole in the PCB. This was a bit fiddly to manage, but it was certainly doable. The four remaining toroidal inductors are all single windings of various differing turns counts, and they are installed upright on the PCB. I reinforced their positions with spot of hot glue on each toroid once installed and aligned. As always, the single most important point when winding toroids - or any inductor for that matter - is to properly remove the enamel coating from the wire in the area where the wire will be soldered. Failure to do so will cause open circuits and operational problems.

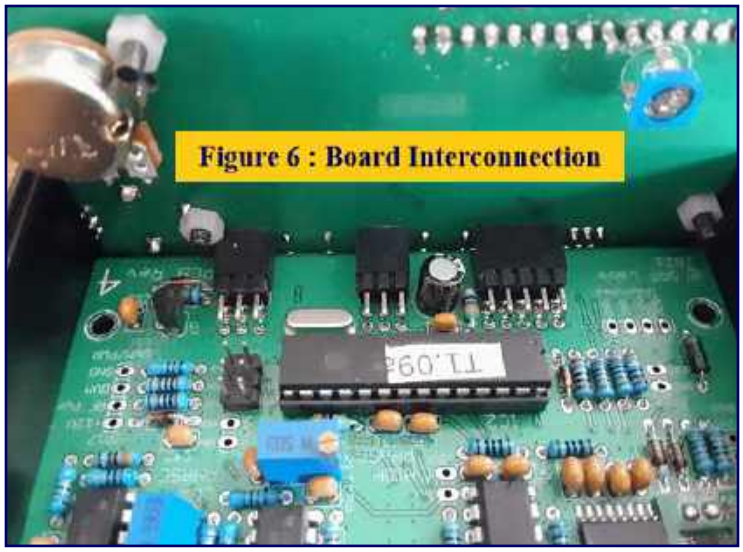


Figure 6 : Board Interconnection

This radio is basically a two-board radio, with a main PCB carrying most of the working circuitry, and a front panel board carrying the display panel and the operating controls. In addition to those controls already described, there is a 10kΩ potentiometer installed as an audio gain control. At the lower left is a DPDT latching pushbutton switch used as the main power switch for the unit. The display, a 16x2 character blue and white LCD panel, is installed to the front side of the front panel board, while a 22kΩ contrast control potentiometer for the display is mounted to the back side of the board. Also installed to the back side of the front panel board are three dual-row pin sockets, one 2x5 socket and two 2x3 sockets **(Figure 6)**.

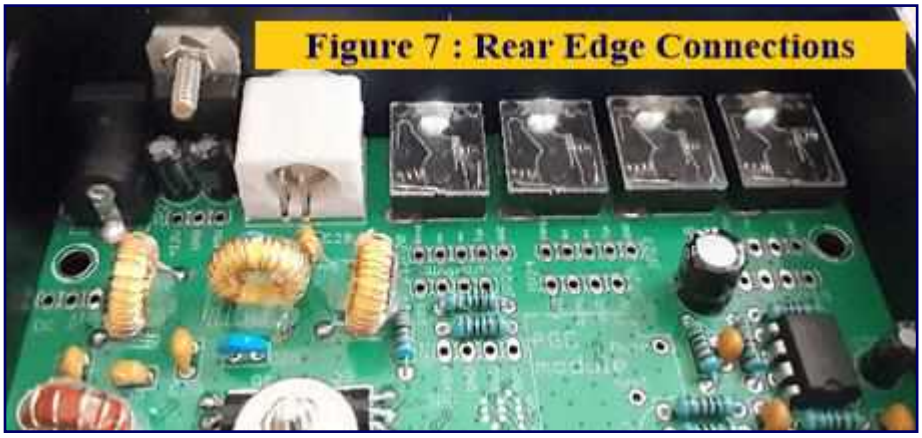


Figure 7 : Rear Edge Connections

Along what becomes the front edge of the main PCB is a series of three right-angle double-row pin headers, oriented so that they are pointing towards the board edge. These pin headers are intended to engage the pin sockets installed to the back side of the front panel board as the boards are assembled to each other.

QRP Labs QCX+20 Meter CW Transceiver Build - Continued on page 47

QRP Labs QCX+20 Meter CW Transceiver Build - Continued from page 46

Along the opposite edge of the main PCB, which becomes the rear edge of the **PCB (Figure 7)** when installed, are the DC power jack, the RF output jack, and a set of four 3.5mm TRS jacks designated for the PTT, CAT, paddle, and audio functions. In between the DC power jack and the RF output BNC jack is the +5VDC voltage regulator, a standard LM7805 three-pin IC in a TO-220 package. This IC stands upright on the PCB. More about that later.

Final assembly of the radio can go a couple of different ways. I chose to purchase the custom enclosure for the kit as offered by QRP Labs, so my finished radio is quite smart and looks like a factory-built unit. The enclosure consists of two identical extruded clamshell halves, which become the upper and lower halves of the enclosure, and two pre-drilled and labeled end-plates, which tie the whole assembly together.

The first step of the final assembly involves installing the front panel board to the front end-plate. This can be quite finicky because of some close tolerances. In point of fact, I had to modify the panel slightly by enlarging the pre-drilled hole for the power switch, as the switch button would not clear the edge of the hole when assembled. I did this using my tapered reamer from both sides of the plate, touching up the bright aluminum hole edge with a black Sharpie® marker to hide the modification. Another modification involves the nylon nuts used as spacers in the board sandwich that makes up the front panel. The kit includes four black 3mm x 20mm flat-head machine screws, four 3mm elongated nylon hex nuts, and eight standard 3mm nylon hex nuts. The assembly has the four elongated nylon hex nuts used as spacers directly behind the front end-plate - between the end-plate and the display board. Four of the standard nylon hex nuts are used as spacers **(Figure 8)** between the display board and the front panel board. The remaining four standard nylon hex nuts are used to secure everything. Of course, the 3mm x 20mm flat head machine screws are what all of these nuts are installed to. The problem is that it is extremely difficult to assemble these parts with the nuts, as the threads become problematic when the nuts are used as spacers. The solution, as suggested in the assembly manual, is to drill out the elongated hex nuts and one set (four pieces) of the standard hex nuts to remove the threads from the inside of the nuts. I did this using a 1/8” twist drill. Then, the screws will slide right through the nuts and the nuts will become proper spacers. The undrilled hex nuts are installed onto the four screws once the screws have all been inserted through the stack of boards and spacers. rubber feet provided to the underside of the lower enclosure half.

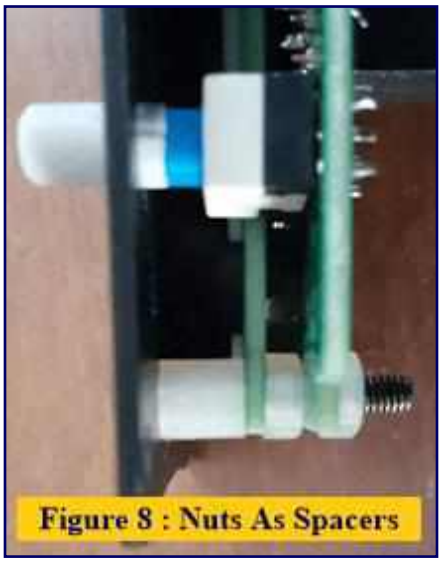


Figure 8 : Nuts As Spacers

QRP Labs QCX+20 Meter CW Transceiver Build Part 2 will be in the July 2025 CrossTalk.
The complete article and a downloadable PDF can be found at : https://gloucestercountyarc.weebly.com/qrp-labs-qcx.html

ARRL Announces Change in Atlantic Division Leadership

Martin J. “Marty” Pittinger KB3MXM, has resigned as Vice Director of the ARRL Atlantic Division, effective April 28, 2025. Pittinger had been Vice Director since January 2023, when he was appointed to the role. He was elected in November 2023 to a three-year term that began January 1, 2024. Pittinger previously served as Section Manager of the ARRL Maryland/DC Section. ARRL President Rick Roderick K5UR, will appoint a successor to serve the remainder of Pittinger’s term, which expires in 2026.

ARRL is governed by an all-volunteer Board of Directors. Elections are held for five of the 15 ARRL Divisions each year, for terms of 3 years.

Article Credit : The ARRL Letter for May 1, 2025 - www.arrl.org

Gloucester County Amateur Radio Club
Board of Directors Meeting Minutes
Wednesday, May 21, 2025

Meeting opened @ 1900 Hours by President Jonathan Pearce WB2MNF

Attendance :

- **President Jon Pearce WB2MNF : Present**
- **Vice President Ron Block NR2B : Present**
- **Treasurer John O'Connell K2QA : Present**
- **Recording Secretary John Zaruba Jr K2ZA : Present**
- **Corresponding Secretary Mike Resnick N2WOQ : Present**
- **Director (2023-2025) Chris Prioli AD2CS : Present**
- Director (2023-2025) James Wright N2GXJ :
- Director (2024-2026) Al Arrison KB2AYU :
- **Director (2024-2026) Bill Price NJ2S : Present**
- **Director (2025-2027) Jeffrey Garth WB2ZBN : Present**
- Director (2025-2027) Frank Romeo N3PUU :
- Trustee (2022-2025) Charles Lanard KD2EIB :
- Trustee (2023-2026) Sheldon Parker K2MEN :
- Trustee (2024-2027) Len Rust W2LJR :
- Trustee (2025-2028) Earl Moore KC2NCH :
- **Member Karl Frank W2KBF : Present**

New Member Applications :

- **Diann Gentile KD2BND, Hammonton, NJ**
- **Sean Pratt N1ZQU, Runnemede, NJ**
- **Matt Wilson K2MFW, Millville, NJ**

Treasurer's Report :

- **Income : $9,295.16**
- **Expense : $5,279.17**
- **Net : $4,015.99**

Detailed financial statements are available for member review upon request.

Committees:

- **Clubhouse : Al Arrison KB2AYU** submitted a written report on current tower work.
- **Technical : Jon Pearce WB2MNF** discussed upcoming Yagi build class on July 12, 2025
- **Programs : Jon Pearce WB2MNF** reported on recent Tech Saturday activities :
  - June 7, 2025 Tech Saturday Forum will be "Field Day for Newbies".
  - September Tech Saturday Forum will be pushed back to September 13, 2025.
- **Education : Chris Prioli AD2CS** reported there are 2 more weeks of license classes, test on 6/10.

May 2025 Board of Directors Meeting Minutes - Continued on page 49

May 2025 Board of Directors Meeting Minutes - Continued from page 48

Old Business :

- Motion to approve previous minutes carried by voice vote of Club officers present.
- Motion to approve treasurer's report carried by voice vote of Club officers present.
- **Jon Pearce WB2MNF** discussed development of the summer STEM session with Woodruff School Students.

New Business :

- Written report of picnic preparations submitted by **Frank Romeo N3PUU**.
- **Jon Pearce WB2MNF** reported on protection of minors considerations for the summer STEM session.
- Motion *"to authorize the Club to conduct activities at the W2MMD Clubhouse that involve students from the Woodruff STEM club that are performed by Club members who have been trained in issues related to working with minors provided it is a school board approved and sanctioned activity"* approved by voice vote of Club officers present.
- **Ron Block NR2B** reported the there will be a solar installation at the landfill adjacent to the 4-H Fairgrounds. Discussion of an RF survey to establish a local noise floor value followed.
- **John O'Connell K2QA** reported on Flex Radio developments he learned about at the 2025 Hamvention.
- **Club Nets :**
  - **40 meter has a new frequency : 7.170 MHz (+/- 5 or 10 kHz)**
  - **2 meter nets :**
    - **Tuesday : Average 8 check ins**
    - **Thursday : Average 7 check ins**

Meeting adjourned @ 2002 Hours

Respectfully Submitted,
John Zaruba K2ZA
Recording Secretary

Sunday, June 15, 2025

To Be Added To The DX HONOR ROLL or Update Your Number, Please Contact
Ernest Kraus KD2EAV
meanddelcanotc@verizon.net

Name/Callsign	DXCC
Bill Grim W0MHK	352
Dave Strout W2YC	349
Edward De Fonzo W2DE	339
Darrell Neron AB2E	336
Bob Pantazes W2ARP	290
Gary Castellini N2IEC	280
Vinnie Sallustio N4NYY	275
John Hill W2HUV	271
Sheldon Parker K2MEN	269
Jim Wright N2GXJ	265
Ken Denson WB2P	248
Tony Starr K3TS	244
Dennis Sandole K2SE	231
Howard Marder WA2IBZ	158
Eric Morris N2BRJ	157
Art Strong KA0WS	157
Steve Farney W2SEF	147
Phil Nunzio WA3RGY	144
Rich Subers W2RHS	133
Ben Johnson NE2R	127
Bart Kleczynski AC2PT	124
Marc Federici WM2Y	117
Chuck Capasso WB2PGE	104
Harry Strahlendorf W3DNQ	103
Jim Clark KA2OSV	87
Lee Marino N2LAM	71
Updated As Of 04/21/2025	

Hmm...It's Saturday and you want to know if someone is at the Clubhouse? Why not call and find out! What!!!

W2MMD Clubhouse : 856-244-6914

Yes, We Do Have Prince Albert In A Can!

June Birthdays

Congratulations To Our Members Who Are Celebrating A Birthday This Month

Albert Christopher KD2PDW
Kenny Denson WB2P
Glenn Dougherty N2YIO
Glen Guenther KE2BUO
Peter Harow W2QB
Chris Prioli AD2CS
Gregg Valentine Sr KD2VBH
Jose Velez Jr KE2EUS

In Memoriam : June Birthdays

Joseph Anlage W2PH
Joseph Arsenault WA2KDV
Joshua Brehm Sr AE2L
Raymond Buirch KB2BIG
John Cliver III N2NLE
Edwin Datz Sr N2PJV
William Frambes K2WAF (President 1971)
Harry Gindhart KE2SN
Helmut Leibfarth WA2LTY
Robert Marshall N2BDH
Philip Mattison WA2WOD
Kenneth Newman N2CQ (President 1970)
Ralph Ralls Sr,WA2CVW (Charter Member)
Arthur Roberts W2UNI

Raymond Schnapp WB2NBJ
(President 2001, 2002, 2003, 2004)

Charles Sketchley K2PQD (Charter Member)
Francis Snyder WB2TKN

CrossTalk Submissions

This is your Club Magazine. Make use of it.

If you have stories or photos of your hobby that you would like to share with the Club, please do so! We will keep covering all of the GCARC events, but it is also nice to get those personal perspectives to include in every issue. Connecting through experiences is what makes the Gloucester County Amateur Radio Club a *REAL* Club.

All submissions, queries, comments, and editorials should be addressed to :
Jeff Garth WB2ZBN at djgrath1 <*at*> gmail <*dot*> com

Submission deadline for the July 2025 issue : Friday, June 20, 2025

Club Website www.w2mmd.org
Club E-Mail Reflector : GCARC <*at*> Mailman <*dot*> QTH <*dot*> Net

Jersey String Band Update

By Glenn Dougherty N2YIO

Jersey String Band Report for June, July, and August

We are getting into the Band's busy season with summer coming. We have a lot of jobs the next three months. We start the 2026 Mummer season getting ready for New Years Day 2026.

The following are the parades that we have so far for June, July, and August :

- **Sunday, June 8, 2025 :** We are helping with the Virtua Hospital Voorhees Run with the Docs. Its a 5K run and the band leads the runners to the starting line and then we come back and also lead the group of walkers to the starting line for their race.
- **Saturday, June 14, 2025 :** We have two jobs. A parade in Stafford in the morning, then the band heads to Wildwood for the Philadelphia Mummers String Band Association fundraiser. The String Band Luau on Seaport Pier. This is a ticketed event to help the String Band Association defray the cost of the New Years Day Parade. Tickets are $20 and there are food and drink specials. All 14 bands play every hour starting at 1pm. This is a fun event! For more information you can go to the **Philadelphia Mummers String Band Association website (https://www.pmsba.org)**.
- **July 1, 3, 22, 2025 :** The Band will be doing the Ocean City Boardwalk Mummers Nights. We will be starting at 14th Street and there is supposed to be another band starting at 6th Street. Both bands will meet at 8th Street at 8pm. Both bands will play a few songs and then turn and march back to their starting point. This event draws big crowds and starts at 6pm each night.
- **Thursday, August 28, 2025 :** The Band will be on the Ocean City Boardwalk for our last boardwalk job of the year This time we will be starting at 6th Street. All these boardwalk parades are weather permitting and both bands will be in full costume. Come on down, you will have a good time!

Well that is it for the Band so far for the summer months.

CQ
2025
SSB
The Radio Amateur's Journal
Takes pleasure in awarding this Certificate of Merit to
K3TS
Operators: K3TS N4NYY
World Wide 160 Meter DX Contest
#1 Pennsylvania
Multi-Operator High Power
#4 North America
#4 United States
A Total score of 36,608 points was computed on the basis of the number of stations worked and call sign prefixes contacted. In witness of this achievement, we hereby affix our signatures on this day.
CQ 160 Meter Contest Director
Editor, CQ

Another FREE Clubhouse Resource Available To All Club Members

Training May Be Required : See Jon Pearce WB2MNF For Details

Full Strawberry Moon - Saturday, June 11, 2025 @ 0344 Hours.

Used by the Algonquin, Ojibwe, Dakota, and Lakota peoples, among others, this name came about because ripe strawberries were ready to be gathered at this time. Similarly, Berries Ripen Moon is a Haida term. Blooming Moon (Anishinaabe) is indicative of the flowering season. The time for tending crops is indicated by Green Corn Moon (Cherokee) and Hoer Moon (Western Abenaki). Eighteenth-century Captain Jonathan Carver wrote that Native Americans whom he had visited used the term Hot Moon. The Tlingit used the term Birth Moon, referring to the time when certain animals are born in their region. Egg Laying Moon and Hatching Moon are Cree terms for this period.

Old Farmer's Almanac - www.almanac.com

ARRL DX Contest, SSB 2025
March 1, 2025

Call : W2YC
Operator (s) : W0MHK, W2YC, WB2P
Station : W2YC

Class : M/S HP
QTH : NJ
Operating Time (hrs) : 32
Location : USA

Summary :

Band	QSOs	Mults
160 :	28	25
80 :	97	55
40 :	148	65
20 :	258	85
15 :	355	93
10 :	526	102
Total :	1,412	425

Total Score : 1,800,300

Club : Frankford Radio Club **029**

Stew Perry Topband Challenge 2025
March 9, 2025

Call : K3TS
Operator (s) : K3TS
Station : K3TS

Class : Single Op HP
QTH : WPA
Operating Time (hrs) : 5
Location : USA

Summary :

Total : QSOs : 203
Total Score : 433

Club : Frankford Radio Club **030**

Comments :
This strange little contest was great for testing recent improvements to my 160 antenna. Unfortunately, after 4 or 5 hours, I ran out of steam, and stations left to work. Also, many static crashes made copying the weak ones a real chore. But on the plus side, the antenna seemed to work quite well. Thanks to all who called in, and 73 for now. de K3TS

Rig : Kenwood TS-590sg
Amp : ACOM 2000a at 1KW
Antenna : Inverted L, 45 ft up, 90 ft out, and 36 ground radials each about 50 ft long.
Ground : Muddy!

BARTG HF RTTY Contest 2025
March 15, 2025

Call : AB2E
Operator (s) : AB2E
Station : AB2E

Class : SOAB HP
QTH : SNJ
Operating Time (hrs) : 3
Location : USA

Summary :

Band	QSOs	Countries	Call Areas
80 :	7	1	6
40 :	33	11	9
20 :	14	10	3
15 :	38	21	7
10 :	18	12	3
Total :	110	60	28

Continents : 5
Total Score : 45,650

Club : Frankford Radio Club **031**

Comments :
Contest : BARTGSRTTY

Band	QSOs	Pts	DXC	Are	Con	Pt/Q
3.5	7	7	1	6	0	1.0
7	33	33	11	9	2	1.0
14	14	14	10	3	0	1.0
21	38	38	21	7	2	1.0
28	18	18	12	3	1	1.0
Total	110	110	55	28	5	1.0

Score : 45,650
1 Mult = 1.3 Q's

Happy Birthday, June 23, 1939

CQ WW WPX Contest, SSB 2025
March 29, 2025

Call : AB2E
Operator (s) : AB2E
Station : AB2E

Class : SOAB HP
QTH : SNJ
Operating Time (hrs) : 13
Location : USA

Summary :

Band	QSOs
160 :	0
80 :	116
40 :	108
20 :	73
15 :	143
10 :	306

Total : 746 Prefixes : 490
Total Score : 1,061,830

032

Club : Frankford Radio Club

Comments :
Rig : FTDX-9000D/OM Power OM-2000A+ amp
Antennas :
160m Inverted L over 100ft tree
80m 75m dipole @ 90ft
40m XM-240 Cushcraft Yagi @ 75ft
10m,15m,20m C31XR @ 53ft

Op time 13 hours

Had many family things this weekend, so little operating time. Amazing condx in my limited time. Got back home Sun at 230P, and 10m was runnable to EU still. Stayed on 10m til 5pm local. On Sun afternoon decided my modest goal would be 1meg, which I made. Numerous mults at every turn, amazing how popular WPX contests have gotten.

Please look for me on Martinique for WPX CW, SOHP, as TO3E.

73
Darrell AB2E

Callsign : AB2E
Contest : CQWPXSSB

Band	QSOs	Pts	WPX	Pt/Q
3.5	116	336	56	2.9
7	108	405	71	3.8
14	73	202	31	2.8
21	143	390	128	2.7
28	306	834	204	2.7
Total	746	2167	490	2.9

Score : 1,061,830
1 Mult = 1.5 Q's

CQ WW WPX Contest, SSB 2025
March 29, 2025

Call : K3TS
Operator (s) : K3TS
Station : K3TS

Class : SOAB HP
QTH : WPA
Operating Time (hrs) : 24
Location : USA

Summary :

Band	QSOs
160 :	4
80 :	7
40 :	95
20 :	102
15 :	201
10 :	305

Total : 714 Prefixes : 532
Total Score : 1,093,260

Club : Frankford Radio Club **033**

Comments :
Not a real serious effort, but it was enough for a halfway decent score. Conditions seemed to improve as the weekend wore on. QRM was, of course, terrible at times, but that is the nature of a phone contest. I am going miss 10 meters when it eventually goes back into hibernation, as we know that it will, but at least for now, it is hanging in there and producing for us. Thanks to all for the contacts, and hope everyone has a great spring and summer. 73 for now. de K3TS

Georgia QSO Party 2025
April 12, 2025

Call : NE2R
Operator (s) : NE2R
Station : NE2R

Class : Single Op CW LP
QTH : NJ
Operating Time (hrs) : 1
Location : Out of State/Province

Summary :

Band	CW Qs	Ph Qs
40 :	6	0
20 :	7	0

Total : 13 0 CW Mults : 1 Ph Mults : 0
Total Score : 13

Club : Frankford Radio Club **034**

Announced DX Operations
www.ng3k.com/Misc/adxo.html
From The Shack of Bill Feidt NG3K : www.ng3k.com

June						
2025 Jun01	2025 Jun10	**Faroe Is**	**OY**	LoTW	DXW.Net 20240619	By WB2REM W9MK W2WCM G6TFL VO1IDX K3BAB K4LT W4VKU as OY6FRA OY6A OY/W9MK OY/K4LT; 160-6m; CW SSB FT8 FT4; QRV for ARRL VHF Contest; QSL via Club Log OQRS or WB2REM
2025 Jun04	2025 Jun11	**Madagascar**	**5R8RD**	Club Log OQRS	DXW.Net 20250213	By IK1TTD fm Tsarabanjina I (IOTA AF-057); 40-10m, mainly 20m; holiday style operation; QSL via IK1TTD direct
2025 Jun04	2025 Jun18	**St Martin**	**FS**	LoTW	TDDX 20250125	By K9EL as FS/K9EL; 40-6m; holiday style operation; QSL via Club Log OQRS
2025 Jun06	2025 Jun11	**Palau**	**T8**	See Info	DXW.Net 20250303	By JH1MLO as T88HR and JR1FKR aas T88TJ fm Koror I (OC-009, PJ77fi); 80-6m; SSB FT8; QSL via JH1MLO & JR1FKR respectively (B/d), LoTW OK for T88TJ
2025 Jun06	2025 Jun13	**Jersey**	**MJ**	M0URX	M0URX 20250501	By ON4ANN + ON team as MJ/OP2D; HF; SSB CW FT8
2025 Jun11	2025 Jun27	**French Polynesia**	**FO**	LoTW	DXW.Net 20241210	By G0VJG as FO/G0VJG fm Bora Bora I (IOTA OC-067); HF + 6m
2025 Jun11	2025 Jun28	**Vanuatu**	**YJ0RS**	LoTW	DXW.Net 20250322	By ZL1RS; 6m, perhaps 10m; FT8 EME; QSL via ZL1RS
2025 Jun14	2025 Jun16	**Ogasawara**	**JD1BQP**	JP1IHD Direct	OPDX 20250401	By JP1IHD fm Chichijima I (IOTA AS-031 QL17cb); mainly 6m; SSB FT8 FT40
2025 Jun14	2025 Jun20	**Cyprus SBA**	**ZC4TH** NEW	DK6SP	TDDX 20250514	By G4WXJ fm KM64ux; 40-6m; CW SSB FT8 FT4; 100w; dipoles, EFHW
2025 Jun18	2025 Jul09	**Guatemala**	**TG**	LoTW	TDDX 20250501	By AF4CZ as TG9/AF4CZ; 40-10m;; FT8 FT4, perhaps SSB; spare time operation
2025 Jun19	2025 Jun23	**Palau**	**T88PB**	LoTW	OPDX 20250417	By JA0JHQ fm Koror I (IOTA OC-009, PJ77fi); HF; QRV for All Asia DX CW Contest; QSL via JA0JHQ direct
2025 Jun28	2025 Jul14	**St Pierre & Miquelon**	**FP**	LoTW	TDDX 20241219	By KV1J as FP/KV1J fm Miquelon I; HF + 6m; mainly SSB FT4 FT8, some CW; QSL via KV1J (B/d) or Club Log OQRS

Also for your convenience, there is a direct link to NG3K on our website. Click on the NG3K DX Page.

June 2025 Contest Calendar - WA7BNM Contest Calendar : www.contestcalendar.com

June 2025	
PVRC Reunion	1700Z-2000Z, Jun 1
K1USN Slow Speed Test	0000Z-0100Z, Jun 2
ICWC Medium Speed Test	1300Z-1400Z, Jun 2
OK1WC Memorial (MWC)	1630Z-1729Z, Jun 2
RSGB 80m Club Championship, Data	1900Z-2030Z, Jun 2
ICWC Medium Speed Test	1900Z-2000Z, Jun 2
PVRC Reunion	2300Z, Jun 2 to 0200Z, Jun 3
ARS Spartan Sprint	0000Z-0200Z, Jun 3
Worldwide Sideband Activity Contest	0100Z-0159Z, Jun 3
ICWC Medium Speed Test	0300Z-0400Z, Jun 3
Phone Weekly Test	0230Z-0300Z, Jun 4
A1Club AWT	1145Z-1300Z, Jun 4
CWops Test (CWT)	1300Z-1400Z, Jun 4
Mini-Test 40	1700Z-1759Z, Jun 4
VHF-UHF FT8 Activity Contest	1700Z-2100Z, Jun 4
Mini-Test 80	1800Z-1859Z, Jun 4
CWops Test (CWT)	1900Z-2000Z, Jun 4
Walk for the Bacon QRP Contest	0000Z-0100Z, Jun 5 and 0200Z-0300Z, Jun 6
CWops Test (CWT)	0300Z-0400Z, Jun 5
CWops Test (CWT)	0700Z-0800Z, Jun 5
NRAU 10m Activity Contest	1800Z-1900Z, Jun 5 (CW) and 1900Z-2000Z, Jun 5 (SSB) and 2000Z-2100Z, Jun 5 (FM) and 2100Z-2200Z, Jun 5 (Dig)
SKCC Sprint Europe	1900Z-2100Z, Jun 5
NCCC FT4 Sprint	0100Z-0130Z, Jun 6
Weekly RTTY Test	0145Z-0215Z, Jun 6
NCCC Sprint	0230Z-0300Z, Jun 6
HA3NS Sprint Memorial Contest	1900Z-1929Z, Jun 6 (40m) and 1930Z-1959Z, Jun 6 (80m)
K1USN Slow Speed Test	2000Z-2100Z, Jun 6
VK Shires Contest	0000Z-2359Z, Jun 7
10-10 Int. Open Season PSK Contest	0000Z, Jun 7 to 2400Z, Jun 8
Tisza Cup CW Contest	0200Z-1459Z, Jun 7
Wake-Up! QRP Sprint	0600Z-0629Z, Jun 7 and 0630Z-0659Z, Jun 7 and 0700Z-0729Z, Jun 7 and 0730Z-0800Z, Jun 7
Atlantic Canada QSO Party	1200Z, Jun 7 to 0200Z, Jun 8
Kentucky QSO Party	1300Z, June 7 to 0100Z, Jun 8
UKSMG Summer Contest	1300Z, Jun 7 to 1300Z, Jun 8
IARU Region 1 Field Day, CW	1500Z, Jun 7 to 1459Z, Jun 8
RSGB National Field Day	1500Z, Jun 7 to 1500Z, Jun 8
ARRL Inter. Digital Contest	1800Z, Jun 7 to 2400Z, Jun 8
K1USN Slow Speed Test	0000Z-0100Z, Jun 9
4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Jun 9
ICWC Medium Speed Test	1300Z-1400Z, Jun 9
OK1WC Memorial (MWC)	1630Z-1729Z, Jun 9
ICWC Medium Speed Test	1900Z-2000Z, Jun 9
Worldwide Sideband Activity Contest	0100Z-0159Z, Jun 10
ICWC Medium Speed Test	0300Z-0400Z, Jun 10
DARC CW-Training Contest	1800Z-1859Z, Jun 10
NAQCC CW Sprint	0030Z-0230Z, Jun 11
Phone Weekly Test	0230Z-0300Z, Jun 11
A1Club AWT	1145Z-1300Z, Jun 11
CWops Test (CWT)	1300Z-1400Z, Jun 11
Mini-Test 40	1700Z-1759Z, Jun 11
VHF-UHF FT8 Activity Contest	1700Z-2100Z, Jun 11
Mini-Test 80	1800Z-1859Z, Jun 11
CWops Test (CWT)	1900Z-2000Z, Jun 11
RSGB 80m Club Championship, CW	1900Z-2030Z, Jun 11
CWops Test (CWT)	0300Z-0400Z, Jun 12
CWops Test (CWT)	0700Z-0800Z, Jun 12
NCCC FT4 Sprint	0100Z-0130Z, Jun 13
Weekly RTTY Test	0145Z-0215Z, Jun 13
NCCC Sprint	0230Z-0300Z, Jun 13
K1USN Slow Speed Test	2000Z-2100Z, Jun 13
YB ORARI DX Contest	0000Z-2359Z, Jun 14
Asia-Pacific Sprint, SSB	1100Z-1300Z, Jun 14
Portugal Day Contest	1200Z, Jun 14 to 1200Z, Jun 15
SKCC Weekend Sprintathon	1200Z, Jun 14 to 2400Z, Jun 15

June 2025 Contest Calendar - Continued on page 58

June 2025 Contest Calendar - Continued from page 57

REF DDFM 6m Contest	1400Z, Jun 14 to 1400Z, Jun 15
AGCW VHF/UHF Contest	1400Z-1700Z, Jun 14 (144) and 1700Z-1800Z, Jun 14 (432)
GACW WWSA CW DX Contest	1500Z, Jun 14 to 1500Z, Jun 15
ARRL June VHF Contest	1800Z, Jun 14 to 0259Z, Jun 16
Run for the Bacon QRP Contest	2300Z, Jun 15 to 0100Z, Jun 16
K1USN Slow Speed Test	0000Z-0100Z, Jun 16
SARL Youth QSO Party	1200Z-1300Z, Jun 16
ICWC Medium Speed Test	1300Z-1400Z, Jun 16
OK1WC Memorial (MWC)	1630Z-1729Z, Jun 16
ICWC Medium Speed Test	1900Z-2000Z, Jun 16
RSGB FT4 Contest	1900Z-2100Z, Jun 16
Worldwide Sideband Activity Contest	0100Z-0159Z, Jun 17
ICWC Medium Speed Test	0300Z-0400Z, Jun 17
NAQCC CW Sprint	0030Z-0230Z, Jun 18
Phone Weekly Test	0230Z-0300Z, Jun 18
A1Club AWT	1145Z-1300Z, Jun 18
CWops Test (CWT)	1300Z-1400Z, Jun 18
Mini-Test 40	1700Z-1759Z, Jun 18
VHF-UHF FT8 Activity Contest	1700Z-2100Z, Jun 18
Mini-Test 80	1800Z-1859Z, Jun 18
CWops Test (CWT)	1900Z-2000Z, Jun 18
Walk for the Bacon QRP Contest	0000Z-0100Z, Jun 19 and 0200Z-0300Z, Jun 20
CWops Test (CWT)	0300Z-0400Z, Jun 19
CWops Test (CWT)	0700Z-0800Z, Jun 19
NTC QSO Party	1900Z-2000Z, Jun 19
NCCC FT4 Sprint	0100Z-0130Z, Jun 20
Weekly RTTY Test	0145Z-0215Z, Jun 20
NCCC Sprint	0230Z-0300Z, Jun 20
K1USN Slow Speed Test	2000Z-2100Z, Jun 20
Pajajaran Bogor DX Contest	0000Z-2359Z, Jun 21
SMIRK Contest	0000Z, Jun 21 to 2400Z, Jun 22
All Asian DX Contest, CW	0000Z, Jun 21 to 2400Z, Jun 22
SKCC QSO Party	1200Z, Jun 21 to 2359Z, Jun 22
LZ International 6-Meter Contest	1400Z, Jun 21 to 1400Z, Jun 22
IARU Region 1 50 MHz Contest	1400Z, Jun 21 to 1400Z, Jun 22
Stew Perry Topband Challenge	1500Z, Jun 21 to 1500Z, Jun 22
West Virginia QSO Party	1600Z, Jun 21 to 0400Z, Jun 22
ARRL Kids Day	1800Z-2359Z, Jun 21
Feld Hell Sprint	0000Z-2359Z, Jun 22
WAB 50 MHz Phone	0800Z-1400Z, Jun 22
K1USN Slow Speed Test	0000Z-0100Z, Jun 23
ICWC Medium Speed Test	1300Z-1400Z, Jun 23
OK1WC Memorial (MWC)	1630Z-1729Z, Jun 23
ICWC Medium Speed Test	1900Z-2000Z, Jun 23
Worldwide Sideband Activity Contest	0100Z-0159Z, Jun 24
ICWC Medium Speed Test	0300Z-0400Z, Jun 24
SKCC Sprint	0000Z-0200Z, Jun 25
Phone Weekly Test	0230Z-0300Z, Jun 25
A1Club AWT	1145Z-1300Z, Jun 25
CWops Test (CWT)	1300Z-1400Z, Jun 25
Mini-Test 40	1700Z-1759Z, Jun 25
Mini-Test 80	1800Z-1859Z, Jun 25
CWops Test (CWT)	1900Z-2000Z, Jun 25
CWops Test (CWT)	0300Z-0400Z, Jun 26
CWops Test (CWT)	0700Z-0800Z, Jun 26
RSGB 80m Club Championship, SSB	1900Z-2030Z, Jun 26
NCCC FT4 Sprint	0100Z-0130Z, Jun 27
Weekly RTTY Test	0145Z-0215Z, Jun 27
NCCC Sprint	0230Z-0300Z, Jun 27
K1USN Slow Speed Test	2000Z-2100Z, Jun 27
UFT QRP Contest	0600Z-0900Z, Jun 28 and 1400Z-1700Z, Jun 28
His Maj. King of Spain Contest, SSB	1200Z, Jun 28 to 1200Z, Jun 29
ARRL Field Day	1800Z, Jun 28 to 2100Z, Jun 29
K1USN Slow Speed Test	0000Z-0100Z, Jun 30
ICWC Medium Speed Test	1300Z-1400Z, Jun 30
QCX Challenge	1300Z-1400Z, Jun 30
OK1WC Memorial (MWC)	1630Z-1729Z, Jun 30
ICWC Medium Speed Test	1900Z-2000Z, Jun 30
QCX Challenge	1900Z-2000Z, Jun 30

2025 Club Committees

Standing Committees	Committee Chairs
Budget	**John O'Connell K2QA**
Constitution & By-Laws	**Ron Block NR2B**
Education	**Chris Prioli AD2CS**
Field Day	**Jim Wright N2GXJ**
Hamfest	**Ron Block NR2B**
Health, Welfare, & Silent Keys	**Bill Price NJ2S**
Hospitality	**Jeff Garth WB2ZBN**
Membership & Membership Badges	**Chris Prioli AD2CS**
Publicity	**Mike Resnick N2WOQ**
Repeaters	***Open Chair***
Volunteer Examiner Liaison	**Chris Prioli AD2CS**
W2MMD Clubhouse Site	**Al Arrison KB2AYU**

Activity Committees	Committee Chairs
Awards & Certificates	**GCARC Board of Directors**
Club Photographer	**Phil Nunzio WA3RGY**
Club Publications & Historian	**Jeff Garth WB2ZBN**
Contests	**Tony Starr K3TS**
GCARC Foxhunts	**Jim Wright N2GXJ**
GCARC Picnic	**Frank Romeo N3PUU**
GC-ARES Emergency Coordinator	**Bob Keogh KD2NEC**
Holiday Dinner Party	**Beth Barnish KB2EAL**
Membership Roster Database	**Jeff Garth WB2ZBN**
Nominations	**Jon Pearce WB2MNF**
Programs : General Membership Meetings	**Ron Block NR2B**
Radio Nets	***Open Chair***
Technical (Tech Saturday, TechNets)	**Jon Pearce WB2MNF**
W2MMD License Trustee	**Darrell Neron AB2E**
W2MMD Special Event Station	**Mark Gottlieb KK2L**

GCARC <*at*> Mailman <*dot*> QTH <*dot*> Net e-mail reflector guidelines

1. **No attachments** (e.g. pictures, files) are allowed on the reflector.
2. If you have Club-related pictures that you would like to share, you can send them to the webmaster, he will put them on the website and will send out a general e-mail to all the members.
3. Otherwise, the pictures will have to be sent to the members' addresses.
4. URLs/Hyperlinks are acceptable on the reflector.
5. Do not send any messages with e-mail addresses in the **BCC** (**Blind Carbon Copy**) field. The message will be rejected. Use only the **To:** or **CC:** fields.
6. Members are subscribed to the reflector using the member's e-mail address from the roster database. You must use that address when sending an e-mail via the reflector.
7. If you use another address on the reflector, the message will get rejected or "*bounced*", because the reflector does not recognize that address. Whenever a message sent to reflector is rejected or *"bounced"* for various reasons, the administrator has to log-in to the Mailman.QTH website and approve the message.

The W2MMD Repeaters

2 Meter Repeater
Output : 147.180 MHz
Input : 147.780 MHz
Offset : +600 kHz - PL : 131.8 Hz
(Conventional FM plus C4FM Capability)
EchoLink : W2MMD-R

70 cm Repeater
Output : 442.100 MHz
Input : 447.100 MHz
Offset : +5 MHz - PL : 131.8 Hz
(Conventional FM plus C4FM Capability)

The above repeaters are both
located in Pitman, NJ
GPS : 39.728481°, -75.131088°

1.25 Meter Repeater
Output : 224.660 MHz
Input : 223.060 MHz
Offset : -1.6 MHz - PL : 131.8 Hz
Location : Sewell, NJ
GPS : 39.746738°, -75.077094°

SKYWARN™ Net
Sunday @ 1930 : 147.180 MHz Repeater

Gloucester County ARES Net
Sunday @ 2000 : 147.180 MHz Repeater

GCARC TechNet ZOOM Forum
Available Every Monday @ 1930 Hours
Join ZOOM Meeting Link :
https://bit.ly/3K8bWwj

Tuesday AfterNoon 2M Net @ 1200 Hours

Monday & Thursday Night 40M Net
1930 Hours
7.170 MHz (Plus or Minus 5 or 10 kHz)

Thursday 2M Net @ 2000 Hours

All 2 Meter Nets Are Also On EchoLink :
W2MMD-R

Meeting Calendar

General Membership Meeting
Wednesday, June 04, 2025
1900 Hours
Pfeiffer Community Center
Simulcast Live on ZOOM
Meeting ID : 914 7364 1808
Passcode : 843147
Join ZOOM Meeting Link :
https://bit.ly/3Pt4dLO

Board of Directors Meeting
Wednesday, June 18, 2025
1900 Hours
W2MMD Clubhouse

"Ask not what your Club can do for you, Ask what you can do for your Club"
- KA2OSV

"There's More To Ham Radio Than You Can Possibly Do!"
- K3TS

*** Badges ***

Need a new or replacement badge
Contact "*The Badge Man*"

Chris Prioli AD2CS
chris@ad2cs.com

Question Pool Answers : E3A01:D; E3A02:B; E3A03:A; E3A04:D; E3A05:C; E3A06:B; E3A07:C; E3A08:A; E3A09:C; E3A10:D; E3A11:B; E3A12:C; E3A13:A; E3A14:B